A MORPHOLOGICAL STUDY OF SINHALESE

<u>BY</u>

ADIKARY ARACHCHIGE ABHAYASINGHE

THESIS SUBMITTED FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN THE UNIVERSITY OF YORK

DEPARTMENT OF LANGUAGE

1973



IMAGING SERVICES NORTH

Boston Spa, Wetherby West Yorkshire, LS23 7BQ www.bl.uk

BEST COPY AVAILABLE. VARIABLE PRINT QUALITY AND DAMAGED PAGES

ACKNOWLEDGEMENTS

I would like to put on record my gratitude to the following:

Professor R.B.Le Page : for general guidance

Dr. M.W.S.De Silva : for supervising my work

Mr. M.K. Verma

: for his comments and suggestions

Staff members of the Department of Language

The secretaries of the Department of Language

Staff members of the J.B.Morrell Library of the University

of York

My Ceylonese colleagues at the University of York

Mr. Clive Warlow

: for suggesting many improvements

in my English

My wife. Wimala

: for her constant encouragement

and help

The Vidyalankara University of Ceylon

: for granting leave and financing

me throughout.

March 1973

A.A.Abhayasinghe

York.

CONTENTS

Ackno	owledgements	ii
Abbreviations and symbols		ix
Intr	oduction	1
1.	The Sinhalese language	1
2.	The Diglossic situation	1
3•	Prose-poetry distinction in literary Sinhalese	2
4•	Differences in the spoken variety	2
5•	The language of this study	3
6.	Informants and data	4
7•	Morphology	6
8.	The word as a linguistic unit	9
9•	The modern trend	16
10.	Transformational Grammar	18
11.	Sinhalese Morphology: The proposed description	21
12.	Citation of examples	25
PART	ONE : THE NOUN PHRASE	26
I.	Introduction	27
Chap	ter 1	30
1.0.	Noun in Sinhalese	30
1.1.	Common nouns	30
1.2.	Proper nouns	3 8
1.3.	Kinship nouns	41
1.4.	Status nouns	43
Chap	ter 2	45
2.0.	Pronoun in Sinhalese	45
2.1.	The First Person pronoun	46
2.2.	The Second Person pronoun	47

2.3. The Third Person pronoun	50
Chapter 3	55
3.0. Number and Definiteness	55
3.1. Number in sinhalese	55
3.2. Definiteness in Sinhalese	62
Chapter 4	67
4.0. Case in Sinhalese	67
4.1. Case relations in Sinhalese	79
4.2. Subjectivisation in Sinhalese	79
4.3. Agentive Case 1	83
4.4. Agentive Case 2	84
4.5. Objective Case	85
4.6. Experiencer Case	87
4.7. Dative Case	88
4.8. Source Case	89
4.9. Goal Case	90
4.10.Locative Case	91
4.11. Directional Case	93
4.11A. Directional Locative Case	94
4.11B. Directional Source Case	96
4.11C. Directional Goal Case	97
4.12. Instrumental Case	98
4.13. Comitative Case	100
4.14. Time Case	101
4.15. Purpose Case	103
4.16. Cause Case	104
4.17. Possessivisation and the Possessive marker	107
4.18. Vocative marker	109

PART TWO : PREDICATE	114	
II. Introduction	115	
Chapter 5	116	
5.0. The verb in Sinhalese	116	
5.1. Action verbs	117	
5.2. Process verbs	122	
5.3. Stative verbs	124	
5.3A. Possessive verb	125	
5.4. Verbs of perception	127	
5.5. Copula verb	130	
5.6. Stative modal predicates	131	
5.7. Passiwe (verb) in Sinhalese	132	
Chapter 6	135	
6.0. Adjectives in Sinhalese	135	
6.1. Stative transitive adjectives	136	
6.2. Intransitive adjectives	137	
6.3. Deictics in Sinhalese	139	
Chapter 7 143		
7.0. Causative verbs	143	
7.1. Causative verbs from Action verbs	149	
7.1A. Double causatives	151	
7.2. Causative verbs from Process verbs	152	
7.3. Causative verbs from perception verbs	154	
7.4. Causative verbs from Stative verbs	155	
Chapter 8 156		
8.0. The Auxiliary of a sentence	156	
8.1. Tense	157	
•		

8.2. Aspect	157
8.3. Mood	159
8.4. The Imperative mood	161
8.5. Realisations of the auxiliary	164
8.6. Realisation of the Imperative mood	168
8.7. The Benedictive mood	175
8.8. The Inferential mood	176
8.9. Possibility mood	177
8.10. Modality of Certainty	177
8.11. Modality of Obligation	1 78
8.12. Copula verb auxiliary	178
8.13. The auxiliary of conjoined sentences	181
8.14. The auxiliary of constituent sentences	185
8.15. Some sentence connectives and conjunctions	1 90
PART THREE : MORPHOPHONOLOGY	193
III. Introduction	194
Chapter 9	207
9.0. (The Phonological) Noun Phrase	207
9.1. A set of phonological noun classes for the	·
common noun	207
9.2. Allomorphic variation of 1P pronoun and	
2P derogatory pronoun	214
9.3. Allomorphic variation of some [-sg] number	
realisations	216
Chapter 10	221
10.0. (The Phonological) Verb	221
10.1. Causative verb	221

10.2. Syllabic structure of the verb in Sinhalese	229
10.2A. Monosyllabic structure verbs	229
10.2B. Disyllabic structure verbs	230
10.2C. Trisyllabic structure verbs	232
10.2D. Quadrisyllabic structure verbs	233
10.3. Vowel nuclei of different syllables of the vert	b 234
10.4. Back to Front Vowel change	239
10.5. Reduplication of verbs	241
10.5A. Reduplication of monosyllabic structure verbs	241
10.5B. Reduplication of disyllabic structure verbs	243
10.5C. Reduplication of trisyllabic structure verbs	243
10.5D.Reduplication of quadrisyllabic structure verbs	з 244
10.6. Allomorphic variation of the verb	244
10.6A.Allomorphic variation of monosyllabic structure	€
verbs	245
10.6B. Allomorphic variation of disyllabic structure	
verbs	251
10.60. Allomorphic variation of trisyllabic structure	€
verbs	254
10.6D. Allomorphic variation of quadrisyllabic	
structure verbs	255
Chapter 11	257
11.0. Sandhi 1 : Internal Sandhi	257
11.1. The word in Sinhalese	257
11.2. Sandhi 1 : Internal Sandhi	263
11.3. Some additional phonological rules	275

١

Chapter 12	282
12.0. Sandhi 2 : External Sandhi	282
12.1. External Sandhi Rules	282
APPENDIXES	292
Appendix A	293
A.O. Quantifiers and Modifiers	293
A.1. Quantifiers in Sinhalese	293
A.2. Modifiers in Sinhalese	296
A.2A. Time modifiers	298
A.2B. Place modifiers	298
A.2C. Manner modifiers	302
A.2D. Quantifying modifiers	303
Appendix B	305
B.O. Question, Emphasis, Negation etc. in Sinhalese	305
B.1. Question formation	305
B.2. Emphasis	310
B.3. Negation	316
B.4. Tag Question formation in Sinhalese	324
B.5. Reported speech	325
Appendix C	327
C.O. Nominalisation in Sinhalese	327
C.1. Nominalised Phrases	327
C.2. Nominalised Clauses	329
C.3. Compound nouns	330
Appendix D	335
D.O. Concord in Sinhalese	335
D.1. Concord of Imperative sentences	336
D.2. Concord in Equational sentences	339
Bibliography	342

ABBREVIATIONS AND SYMBOLS

adj : adjective

Ag : Agentive

ani : animate

App : Appendix

asp : aspect

Aux /aux : Auxiliary

Bib : Bibliography

Ca : Case

caus : causative

Cf / cf : compare

Ch : chapter cl : class

com : common(noun)

conc : concessive

cond : condition(al)

conj : conjunction

cop : copula verb

Dat : Dative

Def / def : definite(ness)

dero : derogatory

Dir : Directional

dir : direct

e.g. : exempli gratia 'for example'

ed(s) : editor(s)

emp : emphasis

E.S.R. : External Sandhi Rule

fem : feminine

ff : following

fn : foot note

Go

: Goal

hum

: human

ib

: ibidem 'in the same book!

IDIO

: idiosymcratic

i.e.

: id est 'that is'

Imp /imp
in

: Imperative : infra 'below'

inani

: inanimate

Ind

: Indicative

indef

: indefinite

inf

: infinitive

I.S.R.

: Internal Sandhi Rule

lit

: literaly

Loc

: Locative

mas

: masculine

N

: noun

neg

: negative / negation

No

: number

nom

: nominaliser

NP

: noun phrase

Obj

: Objective

obl

. .

: oblique

ord

: ordinary

part

: participle

phono

: phonological

pl

: plural

poss

: possessive

p(p)

: page(s)

pred

pro

: predicate

•

: pronoun

proper

: proper noun

Prop : proposition

pt : past

q.v. : quod vide 'which see'

Q / ques : question

Redup : Reduplication

Refl : Reflexive

resp : respect

S : sentence

sg : singular

Sinh : Sinhalese

Sk : Sanskrit

So : Source

subj : subject

subord : subordinate

sup : supra 'above'

Tr : Transitive

v : vide 'see'

vb : verb

vd : voiced

vl : voiceless

Voc : Vocative

vol : volitive

Vol : Volume

1P : First Person

2P : Second Person

3P : Third Person

* : a preceding asterisk indicates an unaccept-able structure.

```
?
               : doubtful
               : plus, 'present', positive value of binary
                 variable; concatenation...'
               : minus, ' negative value of binary variable.
               : 'is equal (equivalent) to '
               : ' is not equal(equivalent) to '
               : in the environment
               : word boundary
               : sentence boundary
               : if.... then : hypothetical proposition.
               : 'includes'
     />
               :'becomes'
               : resulted from; derived from.
               : 'realise as; rewrite as,...'
               : features ; phonetic representation
               : optional
               : choice of x or y
               : if x and y are both present.
 V
               : vowel
 C
                : consonant
```

ABSTRACT

'A Morphological Study of Sinhalese' is an attempt to study the relation between meaning and form of morphemes and to account for any variations of morphemes when they are combined to form 'words; and of words when they occur in sentences.

The thesis is divided into three parts. In Part One, which comprises four chapters, an attempt is made to study different aspects of the noun phrase. A noun phrase consists of noun, number, definite-ness and case.Different classes of nouns are discussed in chapter 1; pronouns in chapter 2; number and definiteness in chapter 3; and case in Sinhalese in chapter 4.

In Part Two, which has four chapters, various types of verbs and adjectives, both of which comprise the predicate of the majority of sentences, are discussed. Accordingly, the verb, the adjective the causative verb in Sinhalese are described in chapters 5, 6 and 7 respectively. Chapter 8 deals with the auxiliary of a sentence.

Part Three, which comprises four chapters, is entitled 'Morphophonology', for its purpose is primarily to account for differences of form of morphemes and words. In chapter 9, a number phonological noun classes are distinguished to account for the choof some associated morpheme variants. A number of these morpheme variants are also introduced. In chapter 10, syllabic structure of phonological verb is stated and its allomorphic variation is account for. Chapter 11 is devoted to the introduction of some phonological rules, internal sandhi rules, which account for the change of morph at morpheme junctures within words. Finally, in chapter 12, some fur phonological rules, external sandhi rules, are introduced, their pubeing to convert the strings of words into sentences.

In a number of Appendixes, some further morphemes are intro-

<u>A MORPHOLOGICAL STUDY OF SINHALESE</u>

INTRODUCTION

1. THE SINHALESE LANGUAGE

The present study is an attempt to describe the morpho-logy of spoken Sinhalese. Of the total population of Ceylon,
approximately seventy per cent speak Sinhalese.

The Sinhalese race can be traced, according to recorded history, as far back as the sixth century B.C. The earliest Sinhalese inscription so far discovered belongs to the third century B.C., however, and prior to this, evidence of the earliest form of the language is lacking.

During its evolution, Sinhalese has been influenced by Old and Middle Indic languages, as a result of learned usage, and by modern Indian languages, especially Tamil, through political and socio-cultural contacts. European contact since the beginning of the sixteenth century A.D. has also left its mark on the language.

2. THE DIGLOSSIC SITUATION

A number of studies have described a very broad and clear--cut diglossic situation in Sinhalese. This comprises a common

¹ See Nicholas. C.W. and Paranavitana, S. 1961, p. 17.

² See Paranavitana, S. 1970, p.xlix, ff.

³ For some studies in description of the diglossic situation in Sinhalese, see De Silva, M.W.S. 1967; 1973; Gair, J.W. 1968; Dharmadasa, K.N.O. 1967.

variety, generally used by all speakers in informal situations, and a superposed literary variety, a phenomenon which results from a number of puristic endeavours that have been made during the last three centuries or so. Any differences in the spoken variety are dialectal. They are based on geographical and social (such as caste) differences, and largely pertain to the lexicon.

3. PROSE-POETRY DISTINCTION IN LITERARY SINHALESE

The language used in prose works differs considerably from that used in works of poetry. (The difference may be stated with reference to phonology, lexicon, syntax and orthography.)

The language of poetry has been considered the prestige variety: while formal education introduces the speaker to the language of prose, through further training -- in such branches of poetics as rhetoric and metrics -- he strives to acquire the ability to compose poetry. The language of poetry is characterized by special usage, specific morphophonological variation, and peculiar syntactic construction, among other things. These are seldom if ever encountered in prose language. The "sidat sangeraawe", the most valuable classical grammar available, which is believed to have been written in the thirteenth century A.D., is in fact a compendium of some of the rules of grammar and rhetoric which have to be learnt by the beginner in poetry.

4. DIFFERENCES IN THE SPOKEN VARIETY

The spoken language also has its differences, but here it is difficult to establish, as such, the distinction between

¹ For a discussion of the peculiarities of the language of poetry, see De Silva, M.W.S. 1970.

different varieties, for the following reasons:

- (a) The difference may be in the use of a different lexical item in an otherwise identical sentence. This is dialect difference.
- (b) The difference may concern a phonetic variable or a morpheme variable. This may be either because of a difference in dialect or social status, such as caused by the caste system.
- (c) The difference may be due to a deliberate attempt to employ a sort of high variety in certain situations --- using vocabulary which belongs to a special register or using a more formal hybrid variety of the language (perhaps, to demonstrate one's ability to speak in 'good Sinhalese') in sermons, lectures, radio news broadcasts, public speak--ing etc.

There is, however, an informal variety in every dialect which is distinguished from the more formal speech which has been created by the educated and by purists through practising the literary norms. Thus, 'formal speech' in this sense is neither the informal nor the written formal but a harmonisation of the two forming a hybrid variety.

5. THE LANGUAGE OF THIS STUDY

The variety of language selected for this study may be called 'informal spoken Sinhalese', and the data subject to the

¹ There are hybrid varieties within the written high variety too. These are condemned by the purists. For a discussion pf some hybridisms see De Silva, M.W.S. 1973.

analysis is based primarily on the competence of the writer as a native speaker. It is true that one can not establish any clear demarcation between the informal and the formal speech in most situations. Yet one must, in some way delimit what is meant by 'informal speech'. In the course of this study the term 'informal speech' refers to the ordinary usage: of the language in different situations by people of diverse social status. Furthermore, by using the term 'ordinary speech' I exclude the jargon used by specialists in the different disciplines when discussing the matters of art and science. Thus the 'informal spoken Sinhalese' includes only the struct--ures and part of the vocabulary used by every one alike in ordinary day to day communication without the bombastic use of Sanskrit or other loan words and special literary structures --- such as the passive --- used by specialists, teachers and others in relation to specific subjects.

6. INFORMANTS AND DATA

Throughout this study, the Sinhalese which is described and analysed is based mainly on my own idiolect. It represents a variety of the dialect of Seven Korales (i.e. sat-koorelee), namely that variety spoken around Kuliyapitiya and Kurunegala. The idiolect comprises characteristics common to thousands of speakers. The statements based on the informant's (i.e.my own) idiolect have been compared with the idiolect of another speaker,

¹ Since I have acted as my own informant it may be important to state something of the social and other influences which have formed my idiolect. I am a mature speaker, educated, and

namely my wife, from the same dialect area. (She is, in fact, from Kurunegala.) I further compared my own data, and state-ments made, with the idiolect of another speaker, Rev. K. Mahanama, from the same dialect area. (He was a post graduate student attached to the Department of Language at the University of York at the time when this study was being made.)

Since one has to gather a sample of data before any analysis is attempted, first of all, I gathered a corpus -- a list of sentences and words -- from my own and my wife's usage. Then I compared that with the data provided in the following works:

- De Silva, M.W.S. 1957: The Verbal Piece in Colhoquial Sinhalese
 --A Phonological Study (M.A.Thesis,
 London University.)
- De Abrew, K.K.D. 1963: A syntactical study of the verbal piece in colloquial Sinhalese (M.A. Thesis, London University.)
- Kekulawala, S.L. 1964: The Phonology of the Noun in Colloquial
 Sinhalese (M.A.Thesis, London Univer-sity.)
- Wickramasuriya, B.S.S.A. 1965: The Nominal Phrase in Sinhalese and its bearing on Sinhalese English

 (M.A. Thesis, London University.)

by profession academic. I acquired my language in the village community into which I was born and in which I was brought up. My later contacts with urban life have changed very little of my linguistic habits. I have, however, been exposed to a number of different dialects in various regions such as, Nikaweratiya, Wariyapola, Peradeniya and Colombo.

Dharmadasa, K.N.O. 1967 :Spoken and Written Sinhalese : A

Contrastive Study (M.Phil.Thesis,

University of York.)

Gunasekara, A.M. 1891 : A Comprehensive Grammar of the Sinhalese Language.

Kumaratunga. M. 1937 : Wyakarana Wiwaranaya.

Carter, Rev.C. 1924 : A Sinhalese-English Dictionary.

This has enabled me to provide more than one morpheme variant in certain cases. However, I have made it a point to give a foot note for those variant forms which are alien to my dialect area.

7. MORPHOLOGY

According to traditional grammar as well as structural linguistics, the morphology of a language is the study of morphemes and their arrangements, and of the different morphological processes those morpheme combinations enter into.

The design of the theory of morphology accounts for the alternations exhibited when morphemes are juxtaposed inside the word (i.e.internal sandhi) and inside the phrase or sentence (i.e.external sandhi).

To have an understanding of what is, in general, meant by a morphological study, it may be appropriate to cite a few definitions from linguistic literature. Consider the following:

"morphology includes the construction of words and parts of words but never phrases 1".

¹ Bloomfield, L. 1933, p.207.

- " Rules for word formation is morphology 1".
- "It is the study of grammatical structure of words²".

 Morphology is 'the description of the more intimate combinations of morphemes, roughly what are called 'wordd':³
- "Morphology deals with different classes of words and with different inflectional forms, syntax has as its object the functions attached to linguistic units while morphology considers only their form".
- "Morphology is the study of the general rules which govern the spoken or written form of sentences of a language.

 The units of morphological study are known as morphemes".

 Morphology has been referred to as 'a level of structure between the phonological and the syntactic.

 'it is complementary to syntax: morphology accounts for the internal structure or 'form' of words (typically as sequences of morphemes) and syntax describes how these words are 'put together' in sentences'.

All these definitions embody the notion that morphology is the systematic study of the morphemes in a language and their identification and classification, as well as the specification of the order in which they occur in larger constructions;

¹ Brown, R. 1958, p. 22. 2 Robins, R.H. 1964, p. 190.

³ Gleason, H.A. 1961, p.58. 4 de Saussure, F. 1959, p.135.

⁵ Langendoen, T.D. 1969, p. 128ff. and p. 152.

⁶ Lyons, J. 1970, p. 22.

⁷ ib. p.96.

different realisations of these morphemes or words are explained in terms of the phonology.

It may be pointed out, however, that for many modern linguists, who give a rather wider interpretation to the term 'syntax' than traditionalists and do not recognise a distinct morphological level, the morpheme is the minimal unit of syntactic analysis. Thus the form of the morphemes and their alternation may be dealt with in the phonology of a language, whereas the meanings of the morphemes as underlying the phonological representations can be treated in the syntax of the language. In other words, syntactic and semantic deep structure information is indispensable in introducing the phonological representations, the morphemes that express those underlying 'contents'. In establishing underlying phonological representations, the morphemes, the linguist has, however, to be guided by phonetic data.

It may be stated here that the majority of the facts of traditional morphology may be handled by most generative grammarians in the phonological component of their grammar.

Yet if we believe that the domain of morphology is confined/
to the surface structures then we have, of course, to classify and establish morphemes according to phonological criteria.

However, a mere phonologically based classification, although it is less complex, does not and can not account for many syntactic and semantic facts that underlie sentences. Such a

¹ see Langacker, R.W. 1968, p. 167.

description is therefore incapable of explaining the knowledge a native speaker has of his language —his intuition or competence. Thus I think that those linguists, who do not recognise morphology as a separate level of analysis, are not wrong in doing so, since they can explain the correlation between meaning and form —content and expression —even though they do not recognise such a level of analysis in their grammars.

Such a situation creates a problem for any one who chooses to study the morphology of a language: whether or not to follow the traditional and structural approach on formal criteria or to study syntax and phonology to account for the form of sent-ences —this includes the form of every thing, morphemes, words and sentences. I shall state in a subsequent section what I propose to do in this study of the merphology of the Sinhalese language. (v. section 11)

8. THE WORD AS A LINGUISTIC UNIT

Since most of the linguistic literature dealing with morphology, syntax or phonology employs the 'word'as an important unit, I believe a brief statement on the concept of word as a linguistic unit would not be out of place here.

There are numerous definitions of the 'word' based on different criteria. Although the word is generally taken for granted and has even been considered as 'unique both in form and meaning' by some linguists, a universally applicable definition is not easy to achieve. The available definitions which are based on

¹ Bolinger, D.L. 1962.

different criteria -- phonological, morphological or semantic
-- have both advantages and disadvantages, but none can be
considered a universal definition.

Bloomfield's definition of the word as 'a minimum free form' or 'a free form which is not a phrase is a word' may be very useful, but I think, as many do, that being a phonological surface unit, its definition, if attempted, should remain arbitrary and specific to the language under observation. It may be defined according to the popular usage of the term 'word' in the community, or according to the historical development of units if there is any such possibility (in this case, perhaps, mainly in accordance with the rules laid down by the philologists) on the basis of phonological, morphological or some other criteria. Some of the criteria employed by various linguists in attempting to define the word include:

(a) semantic function:

Words may be established according to their semantic function. However, all morphemes are also meaningful units and they too have to be included under the heading words. Thus a situation would be created in which the distinction between word and morpheme could not be main—tained. Yet all morphemes are not always words. This criterion is therefore defective.

(b) separability :

According to this criterion words are independent units.

Those that can occur as one word sentences are words.

¹ Bloomfield, L. 1933, p. 178.

Bloomfield's definition, 'a minimum free form' is based on this criterion. However, there are many 'function' words in most languages, which can not occur on their own, hence this criterion alone can not be taken as decisive. Consider Bloomfield's unsound argument in relation to the establishing of word status of English a, the, is and and. 1

(c) replaceability

the possibility of Words may be established on the basis of/substitution.

One can substitute one morpheme for another, one word for another, one phrase for another, one word for a phrase or vice versa etc., so neither does this criterion hold good as a useful one in establishing the word units of a language.

(d) displaceability:

Words are those structures which can not be disrupted by introducing new morphemes within those structures. But we know that the processes of infixation and derivation are not uncommon in the word formation of various languages of the world, and consequently this criterion also fails to establish all word units.

(e) <u>internal</u> <u>structure</u>:

In terms of this criterion words are established on the basis of different combinations of morphemes that go to make up different structures. Here again the structures

¹ Bloomfield, L. 1933, p. 179.

may consist of one morpheme or a number of morphemes producing a word, a phrase or even a sentence, depending upon the language. And as there is such an unlimited range of possibilities, this criterion is again universally inapplicable, although it may be used profitably, though not exhaustively, as a practical one, as Garvin has suggested. 1

(f) phonetic features:

According to this criterion words may be established on the basis of phonetic features such as stress, intonation and pitch. Here too, it is difficult to determine stress, intonation and such features of 'function words' and its own therefore this alone cannot on h be taken as a valid measure in determining the word units of a language.

These are some of the criteria that have been employed by various linguists in defining the concept of 'word'. On the other hand, it may be stated emphatically that there <u>are</u> linguists who believe that it is a vain endeavour to seek to define the 'word' more closely in general linguistics. The difficulty in defining it is echoed in Bloomfield's statement that 'in the case of many languages, however, it is impossible to distinguish consistently, on the one hand, between phrases and words and, on the other hand, between words and bound forms. 4:1. This is

¹ Garvin, P. 1964.

² For a critical evaluation of the criteria employed in defining the word unit in detail, see Kramsky, J. 1969 and, Krishnamurthi, Bh. 1965. 3 Martinet, A. 1964, p. 126. 4 Bloomfield, L. 1933, p. 179.

because the word is an arbitrary unit of the surface realisation of sentences of languages which also differ one from another, if we consider only their surface characteristics.

It is natural that linguists express different views not only regarding the possibility of defining the concept of word but also as to whether any concept at all can be properly defined in linguistics. Some even tend to discard the word as a linguistic unit altogether considering it only as a constituent of a surface sentence or a clause. Some linguists speak in terms of categories and borderline categories, the former being full words complying with a given definition and the latter falling between words and morphemes. Some linguists, nevertheless however, fully aware of the difficulties, have/attempted to produce a more universally applicable definitions. They, too, have failed. One such attempt of Greenberg's has been reviewed and demonstrated inapplicable as all other definitions have been, as a universal definition, by Bh. Krishnamurthi.

Jiri Kramsky has made another attempt. His definition runs as follows:

"The word is the smallest independent unit of a language referring to a certain extralinguistic reality or to a relation of such realities and characterized by certain formal features (acoustic, morphemic) either actually (as an independent waix component of the context) or potent-ially (as a unit of the lexical plane).

¹Vladimir Skalicka quoted in Kramsky, J. 1969, p.9.

² Hansjakob Seiler, see Kramsky, J. 1969. p.9. 3 For a detailed discussion see Bos, G.F. 1967. 4 Greenberg, J.H. 1957.

⁵ Krishnamurthi, Bh. 1965. 6 Kramsky, J. 1969, p. 67.

Even though this elaborately and meticulously worded definition is capable, like most others, of determining many units as words, it can not be considered as a universal definition for the following reasons:

- (a) It also takes the word to be the smallest independent unit and therefore fails to account for many functional nonindependent units found in most languages. Compare English a, an, the, and, of, etc.; Sanskrit co, api etc.; Sinhalese do, mo, yi, t etc.
- (b) A potential unit on the lexical plane need not necessarily be a word or an independent unit. A dictionary of a language may be considered as the inventory of morphemes specifying semantic, syntactic and phonological information. Thus in a dictionary one finds items that may be considered as independent units --words --as well as items that do not have independent occurrence -- prefixes, suffixes, (prepositions, post-positions)etc. Even prefixes and suffixes are listed with the necessary information in dictionaries. The following are a few examples from The Shorter Oxford English Dictionary:

anti-	S.O.E.D.	p•75•
<u>im</u> -	17	957•
<u>in-</u>	!!	974•
neo-	#1	1319.
<u>un</u> -	##	2282.
<u>-en</u>	tt	2489•
-ese	Ħ	632.
<u>-ess</u>	n	634.
-tion -tious etc.	· "	2197•

If we accept that these morphemes, just because they are given in the dictionary, are potential words, then the dichotomy between morpheme and word has to be discarded. Furthermore, since all these prefixes and suffixes do not have the capacity to occur independently — the prime criterion equally accepted by all in attempting to define the word — they can not be taken as words. So this definition, too, is no better than any other and fails as a universal definition.

We know that all the thousands of languages of the world differ from one another as far as their surface manifestations -- forms -- are concerned. Yet we may find that there are striking similarities in their deep structure. The 'contents' or'semantic facts' that underlie those diverse surface manifest--ations may be identical in certain cases or very similar in others. There may be differences due to the climatic, geographi--cal or cultural conditions etc. of the communities. This shows that even in conceptual structures -- content of expressions-alongside a possibly great deal of similarities, there are differences due to climatic, geographical or cultural reasons. Thus any definition or specification of semantic content in relation to different communities also seems to be rather complex. And, to define a unit which is neither the smallest nor the largest definable formal unit of a language seems to me an impossibility, especially when we attempt to achieve universal applicability, knowing that most languages are not identical or similar as to their surface structures and realisations, though the deep structure may be identical or very similar -- due, for

instance, to the fact that the languages in question belong to the same family. Thus it becomes clear that the word as a surface unit has to be defined, if it is necessary to do so, arbitrarily for each language and no universal definition could possibly be achieved, and any attempt at doing so is a futile and vain endeavour.

However, we have to make use of the term 'word' in refer-ring to some phonological structures -- lexical items, simple
or complex --in accordance with the day to day usage in the
ordinary, non-technical sense. Similarly, for linguistic analysis,
we may also establish a unit called a 'word', not necessarily
on any precise definition but, perhaps, arbitrarily, in refer-ring to some sound sequences. In some cases one may be able
to analyse these sound sequences into a number of subsequences
each expressing a specific meaming. Thus the word is a phono-logical unit but it is neither the smallest nor the largest
definable unit of any language.

9. THE MODERN TREND

the most recently developed Transformational Generative theory, have not attempted any proper definition of 'word' although they employ the term in describing certain phonological struct
-ures such as 'a string of formatives (one or more) contained in the context ## ## and containing no occurrences of ###\$ A definition such as the following may be very

¹ Chomsky, N. and Halle, M. 1968, p. 13: 163.

useful in understanding the way of handling such matters but it may not appear to be of much value as a definition as it is speculative and vague.

"Let us assume, as throughout this book, that surface structures are represented with labeled bracketing indicating categorization (as in Chapter One), and let us suppose further that # is introduced by convention (115) and then perhaps dropped in certain positions by whatever language specific rules there may be".

The convention (115) mentioned in the definition is:

"the boundary # is automatically inserted at the beginn-ing and end of every string dominated by a major category,
i.e. by one of the lexical categories 'noun,' 'verb','adj-ective', or by a category such as 'sentence', 'noun phrass',
'verb phrase', which dominates a lexical category".

One may criticise this definition as a futile one, yet as it hinges largely on the psychological aspect of language use by native speakers, it may be considered a valid one in order to explain the native speakers'identification of words.

This definition was, however, formulated for English and as far as I can see it can not be used as a definition covering all the words in Sinhalese. The lexical categories 'noun' and 'verb' are not always followed by #. (cf. convention 115 above) I am not criticising the above definition in any way: it is meant for English and is a workable one for the intended purpose.

¹ Chomsky, N. and Halle, M. 1968, p. 367. 2 ib. p. 366.

However, the authors of 'The Sound Pattern of English'have not underestimated other possibilities, as they state:

"In addition to convention 115 there are language specific rules governing the presence of #. Conceivably, there may be rules that introduce # in various positions not specifically by convention (115), although we know of no clear examples of this; but there are, as we shall see, rules that delete # in various positions".

This suggests that different languages may have different rules for establishing the phonological words of those languages. However, it is the boundary (or potential pause) that plays the most important role in defining the word in any language.

Accordingly, the word in Sinhalese is postulated in Chapter eleven (v. 11.1.) taking into account the phonological criterion of potential pause (i.e, #).

10. TRANSFORMATIONAL GRAMMAR

The declared goal of Transformational grammar is to construct a general linguistic theory that is capable of explaining all matters of the linguistic competence of a native speaker, i.e. an ideal speaker-hearer. Thus the theory is a device pairing meaning (content) with form (expression). The theory developed so far, amidst some differences in detail, includes basically three major components: a semantic component, a syntactic component and a phonological component.

The semantic component consists of rules that explain
the meanings of sentences. This semantic component is the input

¹ Chomsky, N. and Halle, M. 1968, p. 367. 2 see Chomsky, N. 1957; 1964; 1965; 1966; 1968; 1969; etc. Bach, E. 1964. Langendoen, D.T. 1969; 1970. Lakoff, G. 1970. Langacker, R.W. 1968 Lester, M. 1971etc.

to the syntattic component which according to syntactic rules organises the meaning into syntactic structures, the output of that component which is also the input to the third, phonological, component. In this component the phonological rules convert the syntactic structures --terminal strings -- into phonetic representations -- the final output of the grammar.

The researches so far carried out have been confined primarily to working out a linguistic theory to describe syntax broadly as a mediater between meaning and form. A possible 'morphological statement' of a language has received very little attention within this theory possibly due to the fact that English (which has provided the data for most studies) to can,/a very large extent, be described directly under syntax. But even there we find an area called derivational morphology which deals with derivation of items from other items. If languages other than English were considered more, it would become evident, as some have already pointed out, that a morphological statement of a language can be very useful, in particular for those languages where we find very complex

word or phrase formations, when attempting to study the syntax of a language. This may be achieved without recognising morpho--logy as a seprate level of analysis. We may take it to be complementary to syntax in the sense that its main goal is to account for the form of morphemes. words and sentences but specifying the 'content' for which the morphemes are the expre--ssions. Syntax works from the sentence explaining the deriva--tion of sentences of which the terminal symbols -- lexical items or morphemes --, and their immediately dominating categor--ies --lexical or grammatical -- and their dominating categories such as NP, VP1, Aux. etc. may be treated as falling within the domain of lower level syntax -- for this study called morphology. The determining and establishing of deep structures of complex sentences, the transformations that map deep phrase markers on--to surface phrase markers. different processes of coordination. subordination, relativisation, nominalisation, negation, question, emphasis, etc, may be taken as the basic domain of syntax proper. However, this does not mean to say that we have to recognise two distinct levels of syntax. One can not draw a line between higher level syntax and lower level syntax -- i.e. morphology in an overall grammar, which comprises semantic, syntactic and phonological components. What I am suggesting is that if we concentrate on the realisations of the categories other than the highest unit of sentence, and if we can correlate the syntactic and semantic information of those categories with mor--phemes, and then if we can explain the different physical

¹ I have not recognised VP as a syntactic category in this study of Sinhalese Morphology.

manifestations of those morphemes phonologically, in relation to preceding and following morphemes, or combinations of morphemes, such as words etc., then the use of the information provided in the study of morphology of that particular language would undoubtedly prove most helpful to the linguist studying different aspects of syntax.

11. SINHALESE MORPHOLOGY: THE PROPOSED DESCRIPTION

In the course of this study called A Morphological study of Sinhalese, I shall attempt to achieve a description similar to that which I have suggested above.

Although there are a few linguists who have attempted to study different aspects of the Sinhalese language, except for J.W.Gair's 'Colloquial Sinhalese Clause Structure' and R.P.T. Jayawardana's 'Case in Sinhalese', Sinhalese syntax has not been sufficiently investigated. The few studies include the contributions made by De Silva, M.W.S., De Abrew, K.K.D., Kekulawala, S. L., Wickramasuriya, B.S.S.A., De Saram, D.D., Dharmadasa, K.N.O., and others. Most of these studies have been based on the principles of structural linguistics. They are naturally based on formal criteria. My aim is different however, and I shall attempt to explain the correlation by ween morphemes and their underlying semantic content. But in pursuit of this I do not follow any of the three existing structural models of language description -- IA, IP or: WP, because I believe them inadequate in explaining the relationship existing between form and meaning, as they rely upon form alone.

Thus, in the absence of any model to follow, I attempt to incorporate my study of the form of morphemes (and their under-lying content), words and sentences within a syntactic model somewhat similar to that proposed by Fillmore, C.J. in 'Case for Case'. I do not, however, follow his grammar in its totality in this description of Sinhalese'morphology:— lower level syntax.

Since I do not follow any specific model for reference in matters of uncertainty and difficulty, it may be found that I have incorporated some ad hoc ideas of different linguists as well as different statements of facts, and formulations as far as I can understand, express and formulate them. There are areas where I have to express my own doubts about my analysis, because I believe that thoroughgoing study of syntax may be able to explain some surface structures better in relation to deep structures.

The two terms 'morpheme' and 'formative' are used indis-criminately in this study. They are not used in the sense
that the morpheme is the 'minimal meaningful unit' or 'minimal
grammatical unit'. In this study I assume that the <u>form</u> is
nothing but the symbolisation of some underlying 'content',
hence the morphemes as formal units are the phonological
realisations of some semantic features. They may represent
one semantic feature or a complex combination of semantic
features. Thus, I think, any study of morphology should attempt

¹ See Bach, E. and Harms, R.T. (eds) 1968, pp. 1 - 88.

² Nida, E.A. 1946, p. 1;6ff. 3 Robins, R. H. 1964, p. 192; 201 ff.

to specify different semantic features in relation to some abstract syntactic categories and then relate them to the surface manifestation -- symbols, morphemes or formatives. Any further changes of these formatives may be accounted for by phonological rules such as the sandhi rules that are suggested in this study.

In this study of the morphology of the Sinhalese language I do not propose to cover the whole language. It rather attempts to relate some general s mantic and syntactic features of some deep syntactic categories, noun phrase, noun, verb, aux., adjective etc. to their corresponding phonological realisations. The major concern is centered round the categories of noun phrase, verb and the auxiliary, since they form the structure of simple sentences. Complex sentences, I believe, are formed of simple sentences. When we understand the phonological reali--sation of the syntactic categories of simple sentences, we can make use of that information to explain complex sentences as well. Thus I believe that in a morphological study one must attempt to explain the correlation between the semantic content of syntactic categories and the phonetic form of simple senten--ces. Hence the noun phrase, the verb and the auxiliary must be explained in detail, as is attempted in this study.

Different complex sentence formation, -- coordination and subordination -- and derivation of different types of sentences involving negation, question, emphasis etc., which are the sub--ject of sentence syntax, may also be mentioned as one has to introduce certain morphemes in relation to those processes.

Similarly, one may introduce other different expressions, adjuncts, idioms etc. I have added four appendixes to introduce some of these expressions. Furthermore, one has to discuss different processes of new item derivation -- nouns, verbs, adjectives, adverbs etc. This area of derivational morphology should be studied in detail. In this study, however, no attempt is made to study the derivational morphology of Sinhalese. The proposed programme of study is as follows:

The thesis is divided into three parts. Part One consists of four chapters. In these chapters an attempt is made to study the noun phrase in Sinhalese. A noun phrase consists of categor-ies of noun, number, definiteness and case. Different classes of nouns are studied in the first two chapters (-- Chapter 1 : The Noun in Sinhalese; Chapter 2 : The Pronoun); the categories of number and definiteness are discussed in Chapter 3. Chapter 4 is devoted to a study of case in Sinhalese.

In Part Two, which has four chapters, I shall discuss various types of verbs and adjectives both of which comprise the predicate of the majority of sentences. Thus the verb, adjective and causative verb in Sinhalese are discussed in chapters 5,6 and 7 respectively. The last chapter of this part, of chapter 8, deals with the auxiliary of a sentence (-or/the verb if one wishes to treat it as a category of the verb -). This chapter on the auxiliary is introduced in part two, on the evidence that in the phonological structure of the 'verb word', the auxiliary realisations are usually always attached to the verbs.

Part Three, finally, is entitled Morphophonology. This is because its purpose is primarily to explain the differences of the form of morphemes, words or sentences. This part comprises four chapters. In chapter 9, a number of noun classes are distinguished on formal criteria in order to account for the selection of some morpheme variants -- the formatives or realisations of the semantic features associated with category of number of the major category of noun phrase. A number of morpheme variants are also introduced. In chapter 10, the structure of the phonological verb is explained and the allomorphic variation of the verb in Sinhalese is also accounted for, especially in relation to the auxiliary realisa--tions. Chapter 11 is devoted to the statement of the phonologi--cal rules that account for the change of morphemes at morpheme junctures within words. The word in Sinhalese is established at the beginning of this chapter on a practical criterion -the potential pause. Further phonological rules are included in this chapter which account for the optional change of some phonetic realisations. Finally in chapter 12 a few more phono--logical rules are introduced, their purpose being to convert the strings of words into sentences.

12. CITATION OF EXAMPLES

In citing examples, lexical items, (grammatical) morphemes, or sentences, I make use of the alphabet that is suggested in Part Three, Introduction (v. III.6. - III. 8.).

PART ONE

 $\underline{\mathbf{T}}\;\underline{\mathbf{H}}\;\underline{\mathbf{E}}\;\;\underline{\mathbf{N}}\;\underline{\mathbf{O}}\;\underline{\mathbf{U}}\;\underline{\mathbf{N}}\;\;\underline{\mathbf{P}}\;\underline{\mathbf{H}}\;\underline{\mathbf{R}}\;\underline{\mathbf{A}}\;\underline{\mathbf{S}}\;\underline{\mathbf{E}}$

PART ONE

THE NOUN PHRASE

INTRODUCTION

- I. 1 Throughout this section I assume the noun phrase to be the most relevant deep syntactic category that has to be distinguished in describing the nominal expressions of sentences (in Sinhalese or in any other language). The noun is not the deepest syntactic category: nouns in their own right do not have the potentiality to function in different relationships to the predicates of sentences. They have such functions only when they are organised into noun phrases.
- I. 2 Furthermore, I assume that the noun is a category relevant for the description of some of the lexical items of a language. It occurs as the most overt and obligatory nucleus of the noun phrase. The noun as a category on the lexical plane represents sets of deep semantic feature complexes which refer to certain objects, persons, places, abstract qualities, states, feelings or concepts etc. These semantic feature matrices called 'nouns' must be organised by some other categories and their associated semantic features, in order that the resulting noun phrases may be able to perform various functions in sentences. What is called noun inflection in traditional grammars refers to this process of deriving noun phrases from nouns.
- I. 3 Although noun phrases are realised in different ways in different languages of the world, the deep syntactic categories,

and the semantic features associated with them, may be consider-ed to have taken from a set of universals, some very general
components or features.

- A noun phrase should have a semantic feature matrix called 'noun' as an obligatory category in the deep structure and its corresponding phonological representation in the surface structure. It must also have an obligatory feature for the category of number to express singularity and plurality. (Plural—ity may have different degrees such as dual, trial, plural etc. according to the particular language). Finally, the minimum requirement of a noun phrase, is the possession of a feature for the category of definiteness. This feature for definiteness expresses the speaker's awareness of the fact that the noun in use refers to a definite, specific object or to some indefinite and unspecified object..etc. This must also be present in a noun phrase as an obligatory feature. Thus the minimum requirements of a noun phrase are features for the categories of noun, number and definiteness.
- I. 5 Although these 'minimum noun phrases' are capable of expressing precise semantic contents, in order to express the different syntactic and semantic relationships that exists between the predicates of propositions and their presupposed arguments (i.e. noun phrases), we have to organise them for another category called 'Case'. Noun phrases occur in sentences, in different relationships to the predicates. These relation—ships are called 'Cases' (or case relations). Thus the noun

phrases are organised for case relations in order to signal these syntactic and semantic relationships.

- I. 6 The category of case appears to be a category outside the noun phrase. However there are languages where case relat-ions are not overtly realised in the surface structures. Never-theless, I believe that it is a deep symtactic and semantic category, and also an obligatory category closely associated with the noun phrase. If noun phrases are not organised for case relations, they can not signal the relationship between one noun phrase and another or between noun phrases and the verb, or the adjective the predicate. Thus case may be taken as a universal category obligatorily associated with noun phrases. Hence the representation of the noun phrase is:
 - noun phrase ---> noun + number + definiteness {+case}
- I. 7 This general discussion of the categories of the noun phrase, equally applicable to Sinhalese, has been in introduction to Part One of the study, in which I propose to treat these aspects of the noun phrase in Sinhalese. I now proceed, therefore, to the respective study of the noun, number, definiteness and case.

¹ This does not mean that 'case' is optional; it is meant to express that 'case' is semantically associated with NPs, yet it may not be an obligatory category of an NP.

CHAPTER 1

1.0 <u>NOUN IN SINHALESE</u>

1.0.1. In this chapter an attempt will be made to study the noun in Sinhalese. Generally speaking, a noun is the convention—al name given to one of the following 'things': it may be the name of a particular individual, object or place; it may be the name given to a whole class of living beings, objects or places; or, it may refer to an altogether abstract 'concept'. (see also 1.3 and 1.4). The abstract noun (that is, nouns referring to abstract concepts) can be described in relation to class nouns and we need not, therefore, treat them separately. Accordingly, the majority of nouns are classified into two main classes as common or class nouns 1 ([+common], that is, nouns referring to a whole class of living beings, objects or places) and non-common or Proper nouns ([-common] or [+ proper], that is, names of particular individuals, objects or places). Thus the noun in general may be represented as:

1.1 COMMON NOUNS

1.1.1. Let us first describe the common noun (i.e.[+common]), leaving the proper noun (i.e.[-common]) to be described later in this chapter. The common nouns form the bulk of nouns of any language. They can be described by having some general semantic features assigned to them, and them being classified on the basis of different combinations of these semantic features.

¹ Curme, G.O. 1935, p.1; also Zandvoort, R.W. 1962, p.97.

1.1.2. In general, common nouns refer to concrete objects, animate or otherwise. However, since they can and do refer to non-concrete concepts, such as feelings, perceptions and states etc., we have to recognise both [+concrete] as well as [-concrete] common nouns. [-comcrete] nouns are always [+abstract]. We may represent this as:

1.1.3. If a common noun is [+ concrete], then it must be either [+ count] or [- count]. Most concrete objects can be counted, hence [+ count]. There are, however, certain nouns which do not refer to individual concrete objects but to a mass of such objects taken as a whole. These are usually treated as uncountable, hence [- count]. Furthermore, these [- count] nouns are [+ mass].(It should be mentioned, however, that as an exception to the general rule, these [+ mass] nouns are also used as [+count] nouns, when we intend to express difference in variety). A formulation such as the following may be suggested:

1.1.4. When a common noun is [+ count], in addition to those other features described above, it must denote either animate objects or inanimate objects. Thus [+ count] must be marked for the [+ or - animate] feature. This can be formulated as:

[+ count ---> + animate].

1.1.5. Finally, if a common noun is marked [+ animate], it must be either [+ or - human] as well as either [+ or - male].

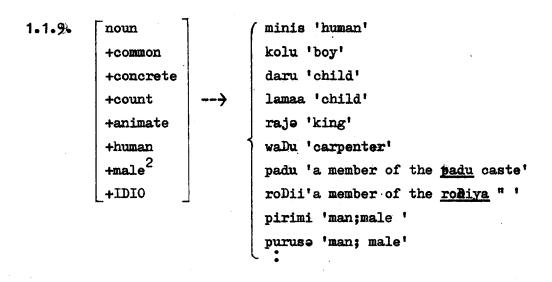
That is:

- 1.1.6. Although we can further demelop the feature classification of common nouns on the basis of idiosyncratic semantic features, I do not propose to do so, as I consider the feature assignment suggested above sufficient for the classification of common nouns.
- 1.1.7. In summary, the complete feature classification of common nouns may be represented thus:

1.1.8. Let us now proceed to the classification, as suggested in 1.1.1., of common nouns in Sinhalese, formulating a number of classes taking into account the different possible combinations of the fleatures we have assigned to common nouns in general. In the following section I have chosen to give a feature

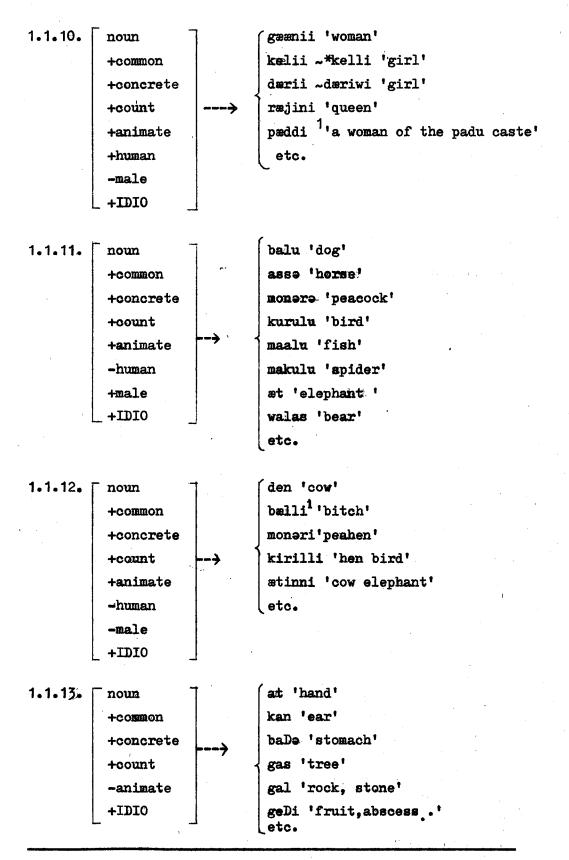
^{1 [-}common] feature is temporarily ignored here in this section on [+common] nouns (v. 1.2.1; 1.2.4.).

of phonological manifestations on the right. (Idiosyncratic semantic features are excluded in the feature specification, except for the cover symbol [+IDIO] to represent all those features, for obvious reasons).

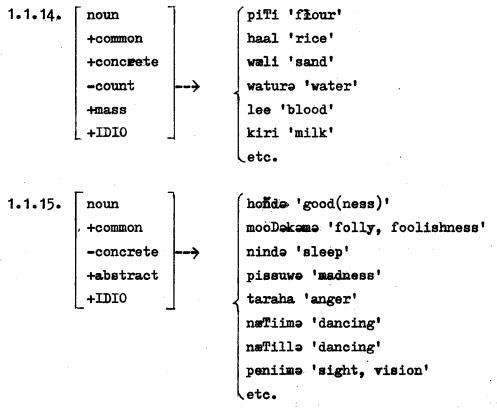


¹ If we attempt to include idiosyncratic semantic features in
the feature specification, we may have to specify feature matrices
for the 'content' of every expression. This can be achieved only
by writing a full lexicon. For our purpose, the general features
provided in the feature specification are considered sufficient.
Nevertheless by recognising some further broad semantic features
we may be able to expand the number of classes we have established.
I have, however, limited myself to giving a minimum number of
classes. The maximum number may be infinite, and every shade of
meaning of every item can not be specified in a lexicon as
'creativity' and 'inventiveness' of usage can on the one hand
lead people to produce
bestow new content to existing expressions, and , on the other,/
new items to express new 'contents'.

² The feature [+male] is inherent in the nouns <u>pirimi</u> 'male' and <u>puruse</u> 'male'. It is either male or common (i,e.both + and - male) in relation to all other nouns given as examples.

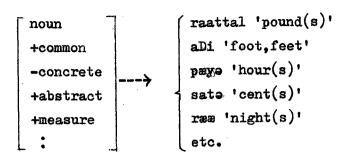


¹ Feminine noun derivation in Sinhalese should be handled in a study of derivational morphology. I have used some of the derived feminine nouns here as examples and they have to be taken as complex lexical items and not as simple morphemes.



It seems reasonable to suggest that all the examples given above are not primary nouns. They are, in fact, nouns derived from predicates -- verbs and adjectives -- through the process of sentence nominalisation. (see Appendix C). All these abstract nouns derived through sentence nominalisation are by definition [-animate] and [+sg.].

1.1.16. However, we have to distinguished a few more sub classes of [+abstract] nouns in order to account for nouns which can not be described as [+commom] and [+concrete]. In every language there are expressions which denote certain definite measurements. These may include time measures, weight measures, length or distance measures and currency measures etc. I propose to use a [+measure] feature to specify these expressions. Thus we may formulate a rule as:



- 1.1.17 Although it is difficult to decide whether these nouns denote concrete 'things'or not, they denote exact measure-ments, and as measures, they are countable. Thus they take both [+and -sg] feature of the category of number and the features associated with other categories comprising NPs.
- 1.1.18. We may further recognise a class of abstract nouns, denoting certain concepts, notions or thoughts. These, too, are countable, however abstract they may be. I propose to employ a [+notion] feature to distinguish these abstract nouns from others. We may represent these nouns as:

1.1.19. Finally to include some other nouns I propose to recognise the following sub-class. These nouns, mostly, function as quantifiers. Thus they are quantity nouns, hence the feature [+quantity]. Under this class of abstract nouns I include, those nouns that are called collective nouns in traditional grammars and the numerals. The following formal representation is suggested:

```
noun
+common
-concrete
+abstract
+quantity

de(k) 'two'
tun 'three'
samahare 'some'
Tike 'few, little'
```

I conclude this section on common nouns in Sinhalese by stating that most common nouns in Sinhalese can be included in one or other of these classes. Next, let us consider the non-common (i.e.[+proper]) nouns.

* * * * *

1.2. PROPER NOUNS

1.2.1. As stated earlier (v.1.0.), proper nouns are [-com--mon] nouns. Since these names also refer to concrete as well as abstract objects the features [+ and - concrete] are relevant for them as well. If the feature is [-concrete] then it is [+abstract] (v.1.1.2.). Thus proper nouns can be partly represented as:

1.2.2. Then, when a proper noun is [+concrete], it should be either [+count] or [-count]. However, as proper nouns denote individuals (and not classes of individuals) the feature specification of [+ or - count] may be of little importance.

Nonetheless, persons or objects designated by the same name can, in fact, be counted, if the need arises. Thus, to facilitate the description to include such necessities we may profitably, retain the feature [+count]. I fail to see the walidity of [-count] in this connection, however, hence the representation:

[+ concrete ----> + count]

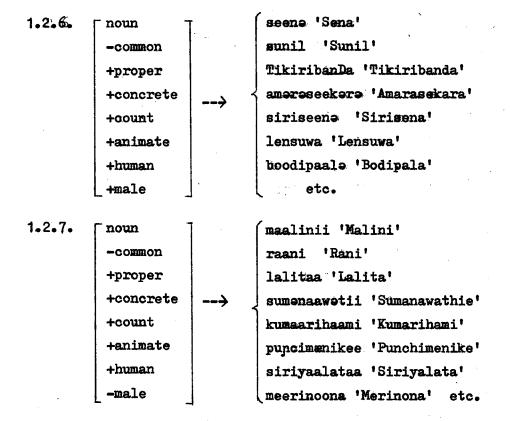
1.2.3. When a proper noun is [+count], it must be either [+animate] or [-animate]. If it is [+animate] then it is equally [+ or -human] as well as [+ or - male].(cf.1.1.4; 1.1.5.). We may represent this as:

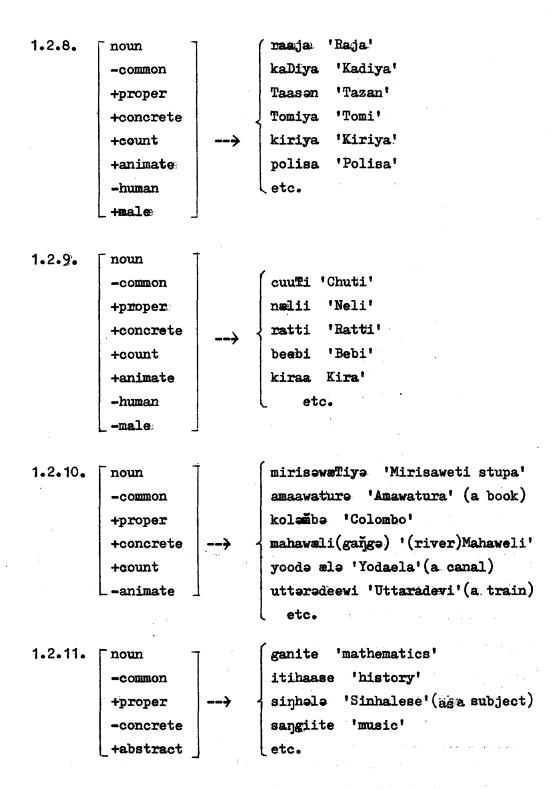
[+ count --> + animate]
[+ animate --> + human; + male]

1.2.4. We may recapitulate the complete feature specificat-ion of proper nouns thus:

noun	 >	- common]
[- common	>	+ proper]
[+proper	>	+ concrete	}
[- concrete	>	+ abstract]
[+concrete	>	+ count]
[+ count	 →	<u>+</u> animate]
[+ animate	+ hum	an; + male]

1.2.5. As we have already done in the sections 1.1.8.-1.1.15, let us assign proper nouns in Sinhalese into certain classes on the basis of different possible combinations of the features assigned to proper nouns in general. Here too, I give the feature specification on the left and a few examples corresponding to phonological realisations on the right.





I believe that most, if not all, of the proper nouns in Sinhalese can be included in one of these classes.

1.3. <u>KINSHIP NOUNS</u>

- 1.3.1. In addition to common nouns and proper nouns we have to recognise a few more classes of nouns. One such class of nouns embraces kinship terms. These kinship nouns are neither common nouns nor proper nouns but belong to the class of expressions denoting certain culturally bound relationships existing among the members of the 'large' family consisting of a number of small families. (By 'large' family I mean the grouping that may comprise some seven or eight generations.)
- 1.3.2. The feature specification for these kinship nouns is fairly similar to that of proper nouns with [+human] feature. First, the noun is marked [+kinship]. Then it is [+concrete], [+count], [+animate], [+human] and [+ or-male]. We need to have some more idiosyncratic semantic features to specify the different relationships. But these features are more relevant in compiling a lexicon, so I shall be content with a feature [+IDIO] to include all these semantic features. Thus I classify kinship nouns into two major sub-classes on the basis of [+ and male] feature. The feature specification is given on the left and examples of phonological representations on the right. 1

¹ The expressions listed here are those currently used in my dialect area -- sat koorelee -- (see Introduction 6). However, expressions like siiya 'grand father' acci 'grand mother' are used by these who have migrated there from the 'low country' of Ceylon. The reader may refer to Frisch's article 'A formal Analysis of Sinhalese kinship terms' in Anthropological Linguistics, 1971 Vol.13 No. 3, pp. 100-105 for an account of kinship terms in Sinhalese.

miimutta'great-great-grand-father' 1.3.3 noun +kinship mutta 'great grand-father' siiya +concrete atta 'grand-father' +count kiri-atta +human taatta +male +IDIO appacci 'father' apucca bappa kuDappa 'father's younger brother' kuDappacci or 'step father' mahappa 'father's elder brother' loku-appacci maama 'uncle, father-in-law' massinaá 'uncle's son, brother-in-law' ayya 'elder brother' malli 'younger brother' miniha manusseya puruseya putaa 'son' bææna 'nephew, son-in-law' munuburaa 'grand son' miimunuburaa 'great grand son'

¹ It is very difficult to provide any precise general express-ions to refer to 'husband' or 'wife'. The two expressions
miniha 'man' and gesni 'woman' are commonly used. However, accord-ing to different social status of persons different expressions
are used by husband and wife in referring to each other. In
educated and urban circles names of persons are sometimes used;
in some circles some status nouns such as mahatteya 'nileme
raalshaami 'gentleman' etc. for husband and noona, noona-mahatteya,
msnike, haaminee 'madam' etc. for wife are used (v.1.4.). Among
villagers besides miniha and gesni one may come across many other
expressions such as lamovinne amma 'children's mother', lamovinnetatta 'children's father', gedero manusseya 'man of the house'
gedoro maayiya 'lady of the house', gedoro ekkenaa 'the person,
man or woman, of the house, etc.

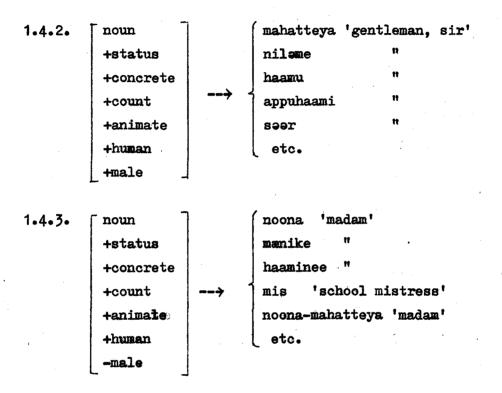
noun miimuttamma 'great great grand 1.3.4. +kinship muttamma 'great grand mother' +concrete aacci +count grand mother attamma +animate kiri-amma +human amma 'mother' -male 'mother's younger punci-amma +IDIO sister or step mother' kuDamma. mahamma. | 'mother's elder sister' loku-amma nænda 'aunt, mother-in-law' akka 'elder sister' nangi 'younger sister' gæmi 'wife' 1 næma 'uncle's daughter.sisterin-law' 'daughter' leeli 'nice, daughter-in-law' minibirii 'grand daughter' miiminibirii 'great grand daughter'

1.4. STATUS NOUNS

1.4.1. There are some expressions in Sinhalese which are neither the names of individual persons, nor the names of classes of beings, nor the kinship names. I shall call these nouns status nouns, because they denote different social status of the people referred to. I propose the following feature specification. Firstly, the noun is marked [+status] to different into it from other nouns. Then it is marked [+concrete], [+count], [+animate], [+human] and [+ or - male]. All these nouns denote human beings only. Having established the feature matrix, we can classify these nouns into two classes taking

¹ see fm. 1. p. 42.

into account the [+ and the - male] features. As in the previous sections, the feature specification is given on the left and the examples on the right.



1.4.4. We may include these status nouns under [+common] nouns if we wish to do so by recognising an idiosyncratic [+status] feature. However, sociologically these expressions are very complex and not common, hence I have treated them separately. I believe that most nouns in Sinhalese can be classified into one of the sub-classes specified in this chapter. Such a classification is very useful in discussing the syntax (and semantics) of sentences. Besides the above classification, I recognise some additional classes on formal grounds, in chapter 9 to account for the distribution of some morpheme variants, namely those that are the realisation of [+ and - sg]features: of the category of number in relation to common nouns (see Ch.9). Thus ending with prepar nouns for the moment, I move on to the examination of the pronoun in Sinhalese.

CHAPTER 2

2.0. PRONOUN IN SINHALESE

- 2.0.1. 'Pronouns' are different from all other noun classes described in chapter 1. They do not directly belong to any of those noun classes, although they are indirectly related to the nouns of all four classes. The socalled 'pronouns' are not names of living beings or objects etc., they are pro-names -i.e.names standing for some other names. In fact, pronouns are co-referential noun phrases referring to other noun phrases, whose nouns are the names of living beings or objects (+ common etc). In many ways it is better to consider pronouns as pronominal phrases and not as pronouns, because, in the syntactic process of pronominalisation, where these expressions replace the nominal expressions of the underlying sentences, they replace not nouns of noun phrases but whole noun phrases. However, I use the terms: 'pronoun' and 'pronominal phrase' to distinguish between the lexical items (pronouns) and the organised pronominal phrases (i.e. pronoun +number +definiteness [+case]¹.
- 2.0.2. In an attempt to classify the pronouns of a language we have to take into account the egocentric speech situation. In such a situation we find speakers and hearers and also, perhaps, some others not directly participating in the action. The speaker is the prominent person, so he is called the First Person (= 1P). The hearer second only to the speaker but not to others, so he is called the Second Person (= 2P).

 All others are called the Third Person (= 3P). There are three

¹ see fn. 1, p.29.

classes of expressions or pronouns referring to these three 'persons'. Let us examine them one by one.

2.1. THE FIRST PRESON PRONOUN

2.1.1. All speakers, hearers and others have names proper or common. But, in an egocentric speech situation the speaker (1P) can refer to himself and others (2P and 3P), by using different co-referential expressions avoiding the use of the corresponding proper or common nouns. The pronouns that refer to the speaker (=1P) with or without [2P] and [3P] are called First Person Pronouns. That is:

First Person Pronoun --> 1P (2P,3P).

There are four possible situations where pronominalisation can introduce 1st Person pronominal phrases. The situation can be explained by the presence of the 1P, 2P, and 3P together.

And the phonological manifestations of the pronouns in Sinhalese, also can be explained in relation to the degree of involvement between the 1P and the others, 2P and 3P. Thus pronouns in Sinhalese may be stated as suggested below. Feature specification is given on the left and the corresponding pronoun in Sinhalese is given on the right.

2.1.2. The situation where the speaker (=1P) refers to him--self may be formulated as:

2.1.3. The situation where the speaker (=1P) refers to him--self and others (=3P) may be represented as:

2.1.4. The situation where the speaker (=1P) refers to him-self and the hearer (=2P) jointly. In this situation a [3P]
may be included, but optional. This situation may be formulat-ed as follows with parenthesis () to represent option. Thus
it embodies two situations [+3P], as well as [-3P].

2.2. THE SECOND PERSON PRONOUN

2.2.1. With regard to 2P pronouns the hearer is the central personality. The speaker or 1P has no relevance at all. Thus 2P pronouns are always [-1P]. There are two situations where pronominalisation can introduce 2P pronominal phrases. That is:

Second Person Pronoun --> 2P (3P).

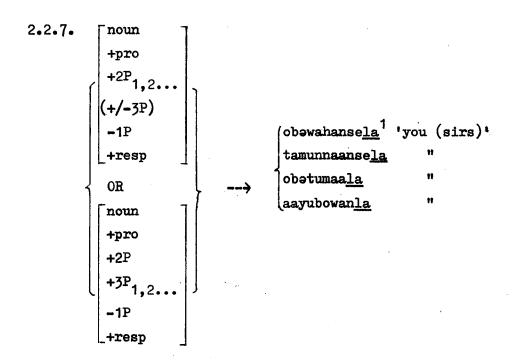
The realisations of 2P pronouns in Sinhaless are given below together with the feature specification.

2.2.2. However, we have to recognise three classes of 2P pronouns on a sociological basis. If the 2P belongs to a high-er class of the social organisation, religious, professional etc.,

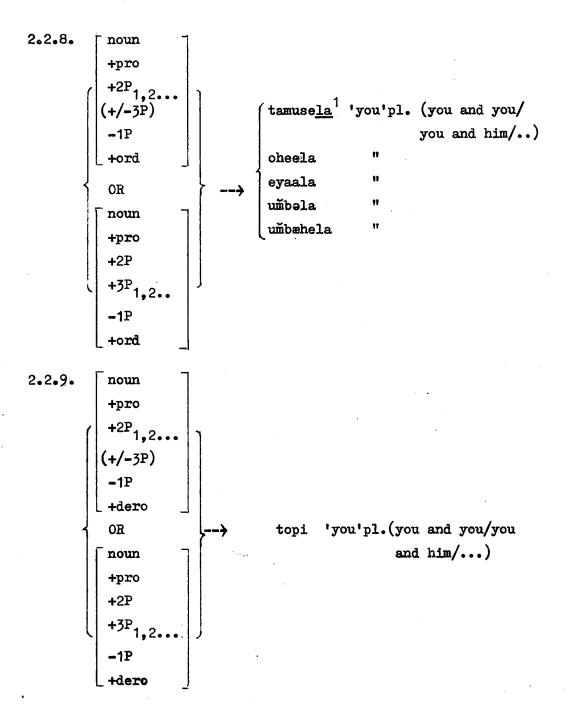
he is referred to with respect. Let us have a [+resp(ect)] grade feature to refer to this class. If the 2P is treated as an equal with the speaker, another type of pronouns is used. Let us call this [+ord(inary)] grade. If the 2P is referred to without respect, or with anger etc., a third type of pro-nominal expression is selected. We may call this [+dero(gatory)] grade. Having introduced this three fold grade distinction, let us formulate the realisation of different 2P pronouns accordingly.

2.2.3. In a situation where only one hearer [2P+[+sg]]is implied, the following are possible formulations for Sinhalese.

2.2.6. There are situations where more than one hearer [2P] is involved. Accordingly, we can formulate such situations and pronoun realisations differently. The hearers may be two or more individual [2P]s; or , there may be one [2P] and one or more [3P]s. This type of pronoun realisation in Sinhalese is formulated in the following sections. Here too, we have to take into account the three grades recognised earlier (v.2.2.2.).



^{1 &}lt;u>la</u> at the end of each of these expressions is the plural marker (v.3.1.8.).



2.3. THE THIRD PERSON PRONOUN

2.3.1. The Third Person Pronouns are more complex than the 1P and 2P pronouns. In the process of pronominalisation, noun phrases in the underlying sentences are replaced by 3P pro-nominal phrases. We may forget about 1P and 2P pronouns

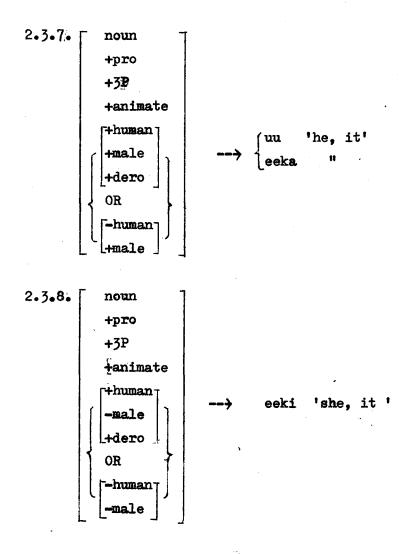
¹ see fn. 1, p.49.

altogether in this section. In the feature matrices, that follow [+3P] implies both [-1P] and [-2P], hence these features are not specified. As far as 1P and 2P pronouns are concerned the features: [+ or - male] are mostly irrelevant. They are marked [+def] only as to the category of definiteness. Thus we can describe 1P and 2P pronouns without positing features such as [+/- male]. Neither do we need to distinguish a [-def] feature to account for pronominal phrases in relation to their pronouns. However, the facts: are quite different when we consider 3P pronouns. To describe 3P pronouns we have to recognise the features [+/- animate] and [+/- male]. In describ--ing phrases we may have to recognise both [+ and - def] feature of the category of definiteness. Furthermore a three fold grade distinction, such as [+resp], [+ord] and [+dero] (v.2.2.2.) may be recognised. Accordingly, to describe 3P pronouns in Sinhalese, the following features may be noticed, namely [+pro], [+3P], [+/-animate], [+/- human], [+/-male], [+/-resp], [+/-ord] and [+/-dero]. Taking into consideration different possible combinations of these features we can account for the different pronominal expressions in the manner suggested below. Some 3P pronouns are formally complex. However I do not attempt to describe their derivation as I have excluded matters of deriv--ation in Sinhalese from this study.

```
2.3.3.
         noun
                            (unda: 'she' (cf.2.3.2.)
         +animate
                             etumii
         +human
         -male
         +resp
2.3.4.
         noun
          +pro
                              eeka 'it, the one '
         -animate
    Grade distinction is irrelevant for [-animate] 3P pronouns.
2.3.5.
          noun
          +3P
                             eyaa 'he / she '
         +animate
          +human
          +/-male
          +ord
2.3.6
         noun
```

^{2.3.6.} noun
+pro
+3P
+animate
+human
-male
+ord

¹ Not commonly found in my dialect area; common in dialects of southern Ceylon.



- 2.3.9. In the above account I have not attempted to discuss the process of pronominalisation in Sinhalese because I was not discussing syntax at sentence level. I have, however, attempted to correlate the content with the form of pronominal expressions which are introduced on to structures as a result of pronominalisation. Yet categories such as number, definite-ness and case associated with the pronouns remain to be discussed. This will be attempted in subsequent chapters.
- 2.3.10. Reflexivisation in Sinhalese is a very complex process. It is marked in the verbal expression, as well as

in the pronominal phrase. I am, at present, unable to give a satisfactory explanation of reflexivisation in Sinhalese. Therefore, I can do nothing more than indicate the following pronominal phrases which occur in reflexivised sentences which usually have a ? 'reflexivised' verbal expression too.

Reflexive pronominal phrase --> pronominal phrases with 1P,2P,

or 3P pronouns + \bigg\{\bigg\{\text{Te}}\)1 \right\{\text{Te}\} + me \bigg^2 \quad \left\{\text{Refl.verb}^3}.

Consider the following examples:

mama eegama maTama dos-kiyaa-gatta

I about it my(self) accused (one self)

I accused myself about it.

eyaa {eyaaTəmə } weDi-tiyaa-gatta tamaaTəmə} he him(self) shot (one self) He shot himself.

With this brief account on the realisation of reflexivisation. I conclude the chapter.

¹ we and Te ... are two case markers (see Ch. 4).

² may be related to the emphatic max (see Appendix 8).

^{3 ?&#}x27;Reflexive verbs' are complex verbs and are not discussed in this study.

⁴ tamaa seems to be a reflexive pronoun associated with the 3P only.

CHAPTER 3

3.0. <u>NUMBER AND DEFINITENESS</u>

3.0.1 In this chapter I attempt to study the categories of number and definiteness as two obligatory grammatical categories of a noun phrase. Number can be studied independently of definiteness. Furthermore, both of these categories have independent phonological realisations. Let us first discuss the category of number and its formal manifestation in the following sections and later the category of definiteness and its realisations.

3.1. <u>NUMBER IN SINHALESE</u>

3.1.1. By number is understood the singularity or the plural-ity of the objects referred to by nouns. All nouns in Sinhalese
are either singular or plural. Plurality may vary in different
languages, but for Sinhalese we need to recognise only a two
term number classification as singular (=[+sg]) denoting
single objects, and plural (=[-sg]) denoting two or more objects.
Thus number in Sinhalese is either [+sg] or [-sg]:

Number --> + sg].

3.1.2. When the number is [+sg], it may be realised in various phonological forms. The selection of one alternant in preference to another is determined mostly by the [+/- male] or the [-animate] feature of the noun, if the noun belongs to the class of common nouns (=[+common]). Otherwise the selection of alternants depends upon membership of the different classes of nouns such as proper nouns, kinship nouns, status nouns and pronouns.

- 3.1.3. However, if we employ the [+/-male] or [-animate] feature alone, we are unable to account for all realisations of [+sg] and [-sg]. Morpheme altermants of [+sg] and [-sg] realisation are so different that their selection can not be satisfactorily explained by mere phonological conditioning, such as the vocalic or consonantal nature of the phonological nouns. To enable us to account for all morpheme alternants as different realisations of both [+sg] and [-sg] features of the deep structure category of number, I, therefore, propose to set up a number of phonological noun classes on observable data.
- 3.1.4. I shall establish a number of phonological noun classes for common nouns. Some are set up taking into consideration the differences in formal manifestation of the category of plural number (=[-sg]). Since the classes set up on this criterion alone can not account for all differences in the realisation of the category of singular number, some additional classes are recognised on the basis of the differences in the realisation of singular number (±[+sg]). Thus, to account for all morpheme alternations resulting as realisations of [+sg] and [-sg] features with regard to common nouns, I propose to establish ten phonological noun classes (see Ch. 9).
- 3.1.5. When a particular noun is selected from the lexicon (where the feature specification and the base form are given), one must then know to which phonological noun class it belongs. It is only then that the correct morpheme realisation of the [+sg] or the [-sg] feature of the category of number can be chosen. I have not classified non-common nouns into phonological

noun classes, because without so doing we can account for the different realisations of the category of number(both [+sg] and [-sg] features).

3.1.6. Hawing stated the practice to be adopted here, let us now formulate a rule to account for the realisation of [+sg] feature of the category of number in Sinhalese. Employing the ten phonological noun classes set up for common nouns, and also other non-common lexical noun classes as environments, we may formulate a context sensitive rule as the following:

3.1.7. Different realisations in different contexts are illustrated in the following examples:

```
aa / cl. 1 : haa+aa > haa waa '(the) hare'

(cf.1.1.11; 11.2.5-6(a)).

wadi+aa > waddaa ' Vedda (man)'

(cf.1.1.9; 11.2.7-8i).

aa /cl. 2 : rilaa+aa > rila waa '(the) ape'

(cf.1.1.11; 11.2.5-6(a),also fn 1).
```

```
hora+aa > horaa ' thief'
                           (cf.1.1.9; 11.2.3-4(a)ix).
              #t+aa > #taa ' elephant '
                           (cf.1.1.11; 11.2.10.)
aa / cl. 3 : koTi+aa > koTiyaa 'leopard '
                           (cf.1.1.11; 11.2.5-6(b)ii ).
              harak+aa > harakaa 'ox'
                           (cf. 1.1.11; 11.2.10.).
aa / cl. 4 : sarəpə+aa > sarəpə aa 'serpent'
                           (cf.1.1.11; 11.2.5-6(b)vi ).
{(*) }/ cl.5a: bælli+ø > bælli 'bitch'
                           (cf.1.1.12; )
              bælli+(a)>bælla 'bitch'
                           (cf. 1.1.12; 11.2.3-4(a)xi).
\left\{\begin{pmatrix} \phi \\ \Theta \end{pmatrix}\right\}/cl. 6 : den+\phi > den 'cow'
                           (cf. 1.1.12.)
              den+(a) > dena 'cow'
                           (cf.1.1.12; 11.2.10.)
e / cl.5b : maataa+e > maataa e 'mother, lady'
                           (cf.1.1.10; 11.2.5-6(a)).
ə / cl.7a : geDi+ə > geDi<sup>y</sup>ə 'fruit'
                           (cf.1.1.13; 11.2.5-6(b)ii ).
              ang+ > ange 'horn'
                           (cf.1.1.13; 11.2.10.)
e / cl.7b : maaligaa+e) maaligaa e 'palace'
                           (cf.1.1.13; 11.2.5-6(a)).
           : kaTe+p kaTe 'mouth'
                           (cf.1.1.13.)
proper noun : sunil +p> sunil 'Sunil'(cf.1.2.6.)
                     raani+ raani 'Rani' (" 1.2.7)
                     raaja+ø > raaja 'Raja' (" 1.2.8.)
                     nmlii+ø> nmlii 'Neli' (" 1.2.9.)
                     kolamba+ø> kolamba 'Colombo'("1.2.10.)
/ kinship noun : taatta+/> taatta 'father' (cf.1.3.3.)
                     amma+ø > amma 'mother' (cf.1.3.4.)
 $\delta / \text{ status noun : mahatteya+$\psi > mahatteya 'gentleman'
                     noona+ø> noona 'madam' (cf.1.4.4.)
```

```
: mamə+ø > mamə 'I' ( cf.2.1.2. ).
/ pronoun
               tamunnaanse+ø > tamunnaanse 'you'(cf.2.2.3.).
               tamuse+$\varphi$ > tamuse 'you' (cf.2.2.4.)
               too+$ > too 'you' (cf.2.2.5.)
               unnæhe+ø> unnæhe 'he' (cf. 2.3.2.).
               undæ+ø > undæ 'she/he ' (cf.2.3.3.;2.3.2.)
               eyaa+\phi > eyaa 'he/she' (cf.2.3.5.)
               eekə+ø > eekə 'it'
                                       (cf. 2.3.4.)
                                            2.3.6.)
               ææ+ø >ææ 'she'
               uu+ø > uu 'he/ it'
                                            2.3.7.)
               eeki+ø > eeki 'she'
                                            2.3.8.)
ee /cl.9
              : ale+ee > alee: 'yam'(cf.1.1.3;11.2.3-4(a))
               sadd = +ee. sadd = sound(cf.1.1.13;11.2.3-4(a))
              : kaar+ekə > kaarekə 'car' (cf.1.1.13;11.2.10.?)
eka/cl.10
               bas+ek>> bas(s)ek> 'bus'( "1.1.13;12.1.4.?)
               reeDiyoo+eka> reeDiyoo-eka 'radio'
                                  (cf.1.1.13.;12.1.1.?).
```

3.1.8. Adopting the principle chosen in formulating the phonological realisation of the [+sg] feature (v,3.1.6.), let us now formulate a rule to represent the different realisations of the [-sg] feature of the category of number in Sinhalese. Here too, we may employ the concept of context sensitivity. Thus, the following rule is suggested:

These [-sg] realisations, or plural morpheme alternants, also have further variants. They will be discussed in Part Three on Morphophonology (see chapter 9.3).

3.1.9. In the following section let us illustrate these numerous realisations in different contexts:

```
o / cl. 1: haa+o > haawo 'hares'

wædi+o > wæddo 'Veddas'

o / cl.(3): koTi+(o) > koTi(yo) 'leopards'

*harak+(o) > *harak(o)

o / cl.5a:bælli+o > bælliyo 'bitches'

o / cl.5b: maataa+o > maataawo 'mothers;

hu/ cl.2: rilaa+hu > rilawu 'apes'

hora+hu > horu 'thieves'

æt+hu > ættu 'elephants'
```

```
hu / cl.6 : den+hu > dennu 'cows'
i / cl.4 : sarəpə+i > sarəpa i 'serpents'
/ cl.3 : koTi+//> koTi 'leopards'
              harak+ø > harak 'oxen'
ø / cl.7a : geDi+ø > geDi 'fruits'
              angto > an 'horna!
ø / cl.(7b): maaligaa+ø > maaligaa
                                    'palaces'
          : ale+ø > ale 'yams'
ø / cl.9
              saddə+ø > saddə 'soundst
          : kaar+ø > kaar 'cars'
ø / cl.10
              bas+ø > bas 'bus'
              reeDiyoo+ø > reeDitoo 'radios'
wal/cl.(7b): maaligaa+wal > maaligaawal
                                         'palaces'
                                'mouths'
wal/cl.8
           : kaTo+wal > kaTowal
wal/proper
                                         'Madampes'
             maadampe+wal > maadampawal
    -ani
la/ proper
            sunil+la sunilla 'Sunil and others ..'
    [+ani]
              raani+la > raanila
                                  'Rani and others...'
la/kinship: taatta+la > taattala
                                    'fathers.father and
                                        others.'
              amma+la > amməla
                                 'mothers.mother and others'
la/2P pro
           : tamunnaanse+la > tamunnaansela 'you'pl.
              tamuse+la > tamusela
                                    'you'pl.
              umbə+la > umbəla
                                 'you' pl.
la/3P pro
    [+ani]: unnæhe+la > unnæhela
                                    'they'(males)
              undæ+la > undæla
                                 'they'
              eyaa+la > eyaala
              ecka+la > eekala
                                         (males)
                                   " (females only)
              ee+la > eela
              uu+la > uula 1
                                   " (males)
                                   " (females)
              eeki+la > eekila
wa/3P pro
                     eewa 2
              ee+wa>/'they, those '
    -ani
```

This is infrequently found in some peoples' idiolects. It is not found in my own. The most commonly used pl. of <u>uu</u> is <u>un</u> 'they'. 2 <u>eeks</u> 'it' is considered to be a formally com-plex pronoun consisting of the deictic <u>ee</u> 'that, it' plus <u>eks</u> 'one'. Similarly <u>eews</u> 'they, those consists of <u>ee + wa pl. marker</u>.

3.2. <u>DEFINITENESS IN SINHALESE</u>

3.2.1. By definiteness we generally mean two things. One is the reference to an object or objects with exact or definite identity. This is definite, specific reference. [+definite] may be used to represent this. The other is the reference to an object or objects without any specific identity. 'Any' or 'some' of the objects but not'the' or 'all the' objects. This is in-definite or unspecified reference. We may use [-definite] to represent this. Thus definiteness in general is two fold, definite [+def] and indefinite [-def]. I suggest the following formulation to represent the category of definiteness:

3.2.2. There are number of realisations of [+def] and [-def] features. If the feature is [+def] the realisation is mostly as zero. Thus:

e.g. balu + aa + ϕ > ballaa 'the dog'

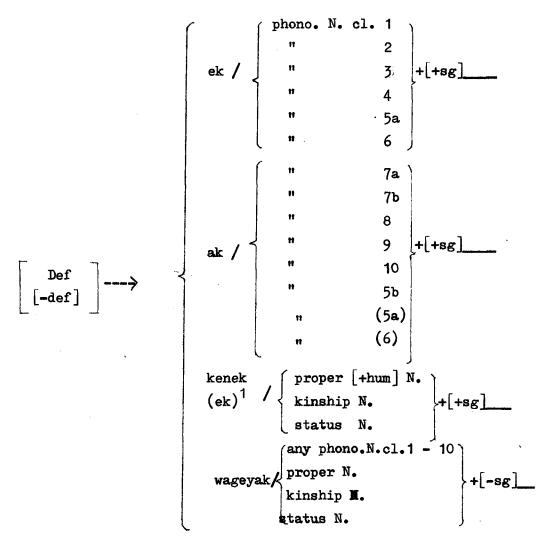
amma + ϕ + ϕ > amma 'the mother'

gas + ϕ + ϕ > gas 'the trees'

at +hu + ϕ > attu 'the elephants'

etc.

3.2.3. The realisation of [-def] feature is not so simple, however. In accounting for the conditioning factors that select different variants as realisations of the [-def] feature of the category of defigiteness, we have to take into account the phono-logical noun classes for common nouns (cl.1 - 10) as well as other lexical noun classes and also the number category, both [+sg] and [-sg] features. Employing all these, we can formulate the following phonological representation:



¹ ek too may be considered as a free variant but it connotes some disrespect.

3.2.4. To illustrate the different variant forms of [-def] realisation, some examples are given below:

ek : haa+aa+ek > haawek 'a hare'
horə+aa+ek > horek 'a thief'

#t+aa+ek > #tek 'an elephant'
koTi+aa+ek > koTiyek 'a leopard'
sarəpə+aa+ek > sarəpəyek 'a serpent'
b#lli+#+ek > b#lliyek 'a bitch'
den+{(a) + ek > denek 'a cow'

ak : geDi+ə+ak > geDiyak 'a frwit'

maaligaa+ə+ak > maaligaawak 'a palace'

kaTə+Ø+ak > kaTak 'a mouth'

alə+ee+ak > aleyak 'a yam'

kaar+ekə+ak > kaarekak 'a car'

maataa+ə+ak > maataawak 'a mother'

(bælli+ə+ak > bællak 'a bitch')

den+ə+ak > denak 'a cow'

kenek: sunil+Ø+kenek > sunil kenek 'a person named Sunil'

raani+" " > raani kenek 'n girl/lady " Rani'

amma+ " " > amma kenek 'a mother '

noona+ " " > noona kenek 'a lady'

wageyak : kolu+ o +wageyak > kollo-wageyak 'some boys'
hora+ hu + wageyak > horu-wageyak '" thieves'

at +hu+wageyak > attu-wageyak 'some elephants'

geDi+#+wageyak > geDi-wageyak 'some fruits'

kaTa+wal+wageyak > kaTawalwageyak 'some mouths'

amma+la+wageyak > ammala-wageyak 'some mothers'

etc.

e.g. gas-dek-ə-\$\psi\$ gas dekə 'the two trees'

To denote indefiniteness the quantity nouns take [+sg]->

a,\$\psi\$..(v.3.1.6.) and [-def] -> ak (v.3.2.3.) in a situation

where the noun preceding the quantity noun is [-ani](or one

of classes 7a, 7b, 8 9 or 10; see Ch.9).

e.g. gas-tun-a-ak > gas tunak '(some)three trees'

3.2.6. It must be stated here that the numeral ek'one' is rarely used in this situation, because the indefinite with singular number denotes the same thing. Thus:

gas +ekə +ak > gas ekak 'one tree' is similar in meaning to gas+ə+ak > gahak 'a tree'. Instead of gas ekak we usually find ekə gahak 'one tree' in Sinhalese, but*dekə gahak, tunə gahak etc. are impossible. However, numerals (=[+quantity] nouns) can occur without having number and definiteness realisation before noun phrases with nouns denoting time, and features [+sg] and [+/-def].

e.g. ek(a) pæya $+\begin{bmatrix} \emptyset \\ ak \end{bmatrix}$ --> ek(a) pæyak 'an hour' tun awurudda $+\begin{bmatrix} \emptyset \\ ak \end{bmatrix}$ -> $\begin{bmatrix} tun & awurudda \\ tun & awuruddak \end{bmatrix}$ three years' $\begin{bmatrix} tun & awuruddak \\ tun & awuruddak \end{bmatrix}$ 3.2.7. However, if the noun preceding the quantity noun

(= numeral etc.) is a [+animate] (or one of phonological noun

classes 1 - 6 (see Ch. 9)), then it has a special realisa
-tion for [+/-sg]features as: [+sg] -> kenaa'one'/ek___ and

[-sg] -> denaa 'more than one' / de___'two'

tun___'three' etc., plus

[+def] -> Ø and [-def] -> ek. Thus we can account for

such expressions as:

minissu ekkenek 'one man'
minissu pas-denek 'five men'
" pas-denaa 'the five men' etc.

In every case all nouns before numerals or other quantity nouns are associated with the plural number (i.e.[-sg]as given in 3.1.8.).

I believe that this behaviour of quantity nouns suggests that there is some semantic relationship between the categories of number and definiteness on the one hand and the quantifiers of a language on the other.

CHAPTER 4

4.0. <u>CASE IN SINHALESE</u>

- 4.0.1. It was stated in the Introduction to Part One of this thesis (v.I.2. and I.5-6.) that noun phrases must be organised for a number of syntactic and semantic relationships called case relations, in order that they may function as the subjects, objects, indirect objects etc. of sentences.
- 4.0.2. The categories of noun and pronoun of different classes (see Chapters 1 and 2)of the lexical plane and the gramma--tical categories such as number and definiteness associated with them in forming syntactic units called noun phrases (see Introduction to Part One, v.I.2. and I.4.; also see Ch. 3) can be semantically defined. However, it is difficult to define case relations on semantic grounds alone, because the main function of case relations is to bind together the meanings of the noun phrases as arguments of sentences with their predicates (i.e. verbs and adjectives; (see II.1.) and also noun phrases in the case of 'equational' sentences). Thus the major function of case relations is to organise noun phrases into complete nominal expressions that can signal different relation--ships holding between them and the predicates of sentences. Accordingly, case relations are both syntactic -semantic relationships rather than purely syntactic or semantic relationships.
- 4.0.3. Furthermore, predicates, especially, both verbs and adjectives presuppose some obligatory arguments (i.e.NPs) and, without these, the predicates can not express the semantic

content they are supposed to signal. Predicates denote actions, processes, experiences and states etc. These non-linguistic events are associated with objects, places, time etc. The expressions denoting objects, places, time etc. belong to the noun classes. These nouns are organised for number and definiteness to form noun phrases. Then they are further organised for case relations to express different relation--ships holding between them and the predicates. The speaker has the option in choosing certain expressions as additional information, namely those expressions denoting time and place etc., but he has no option in the selection of certain obligat--ory expressions (namely those denoting objects which must be present in a proposition). I adopt the term 'nuclear constitu--ents' for minimally obligatory propositions, and 'extranuclear constituents 'for the optional expressions. I do not propose to go into detail here. I think it sufficient to state that whether the noun phrases belong to nuclear constituents or extranuclear constituents, they signal different case relations. In this chapter I shall attempt to study the case relations in Sinhalese as deep syntactic and semantic relationships and their corresponding surface realisations -- the phonological realisations.

4.0.4. Any proper attempt to explain case relations of a language should result from a thorough-going study of syntax. Except for R.P.T.Jayawardana's pioneering attempt to study case in Sinhalese on the model of C.J.Fillmore's 'Case for Case' no further research has been carried out, so far, to

¹ see Lyons, J. 1968, p. 334 for these terms.

study of Case in Sinhalese cover all areas of syntax where 'case' has a role to play. Thus until the category of case in Sinhalese is studied in more detail, it is difficult to provide a complete account of Case in Sinhalese. I, therefore, suggest a tentative treatment of Case in Sinhalese leaving further research in the study of syntax in Sinhalese to un--cover more concrete facts about case relations in Sinhalese.

4.0.5. If one attempts to describe the category of case in Sinhalese on formal criteria by analysing paradigmatic sets of nominal expressions, then one can easily distinguish two sets of cases, one associated with animate nouns and the other with inanimate nouns. Thus one has to recognise a six term case system for animate nouns and a four term case system for inamimate nouns. By recognising six or four cases on the basis of form alone, it is my opinion that we can not account for all the functions attached to nouns phrases in sentences. Furthermore, it is a mistake to classify case on the basis of form alone, for, on the one hand, there is every possibility that a particular case form (or marker) may signal different functions, while on the other, a particular syntactic semantic function (= a case relation) be realised in more tham one form owing to different reasons, which can be specified. Furthermore, the category of case can not be studied without taking into account the syntax of a language. Hence any classification of case of a language, on the basis of form alone by segmentation of 'affixes' in paradigmatic sets of

nominal expressions, is of little use in understanding the deep syntactic and semantic relationships they are supposed to convey.

- 4.0.6. The establishment of six cases for animate nouns and form cases for inanimate nouns in Sinhalese is, therefore, made without taking into consideration the fact that the case forms are the realisations of deep syntactic and semantic relations. However, before going on to my account of the study of case in Sinhalese, in the following sections I attempt to give a brief account of the way the category of case is studied on a formal basis.
- 4.0.7. It is always assumed that a noun consists of a base plus an ending; the base may be simple, derived or complex (including compounding); the endings are simultaneously associated with the categories of number, definiteness and case; these endings differ according to animateness or inanimateness of the bases. Further, if the bases are animate, the endings are different for masculine bases from those of feminine ones in some cases. Thus masculine bases take: aa ~ a as singular, definite and direct case ending; and o ~ u ~ Ø as plural definite and direct case endings. There are no plural indefinite cases in Sinhalese. We may formulate the above case forms as:

4.0.8. Similarly, feminine bases, which are mostly derived

4.0.9. Then there are five oblique cases for both masculine and feminine bases. These will be called oblique case 1, 2, 3, 4 and 5 in the description below: masculine bases take aa(wə) ~ a(wə) as singular definite oblique case 1; they take eku(wə) as singular indefinite oblique case 1; and they take an(wə),~ un(wə),~ in(wə) ..as plural definite oblique case 1. Thus the oblique case 1 (together with other cateogories) may be formulated as:

4.0.10. Similarly, feminine bases take $a(wa)_{\sim} \emptyset(wa)$ as singular definite oblique case 1; they take $eku(wa)_{\sim} eka(wa)$ as singular indefinite oblique case 1; and they take $eku(wa)_{\sim} eka(wa)_{\sim} eka(w$

sg.,def.,obl.case1
$$\rightarrow$$
 \Rightarrow (wə)~ β (wə)
sg.,indef.,obl.case1 \rightarrow eku(wə)~ \Rightarrow kə(wə)
pl.,def.,obl.case1 \rightarrow an(wə) ~un(wə)

4.0.11 In a similar manner we can formulate the other oblique cases 2 - 5 as well, for both masculine and feminine bases. I suggest the formulation to represent them:

Similarly:

Similarly:

Similarly:

Similarly:

- 4.0.12. There are no endings for singular indefinite oblique case 5. However, I draw attention to the fact that some of oblique case endings may have free variants, specially where the ending has a -g- element which may occur either as -y- or as homorganic with the preceding consonant specially when it is a nasal.
- e.g. aagen ~agen as aa(y)en ~a(y)en
 ekugen as eku(y)en
 angen ~ ungen ~ingen as annen ~unnen ~innen
 aage ~age as aa(y)e ~a(y)e
 ekuge as eku(y)e

ange ~unge ~inge as anne ~ unne ~ inne

Similarly anTə~unTə~inTə may have anDə~ unDə~ inDə as free variants but Tə does not change to Də in other cases such as aaTə ~ aTə ; ekuTə; əTə~ ØTə ; ekuTə ~ əkəTə etc.

The existence of free variations may be explained as a dialect difference.

4.0.13. Finally to conclude this discussion of case on formal criteria, the case endings should be considered in relation to inanimate noun bases. When the base is inanimate the following are the endings occurring as direct case forms:

 $\vartheta \sim \emptyset \sim \text{ee} \sim \text{ek}\vartheta$ as singular definite direct case; ak $\sim \text{eyak}\sim \text{ekak}$ as singular indefinite direct case; and $\emptyset \sim \text{wal}$ as plural definite direct case. We may represent this in a formulation:

4.0.14. There are only three oblique cases in relation to inanimate noun bases. However, assuming that we have to recognise, at least, six cases syntactically (see Kekulawala 1964), We may allocate these three oblique cases to the oblique cases 2, 3 and 4. Thus we may say that the oblique case 1 is identical with the direct case (v.sup.). The oblique case 5 is very artificial if we want to recognise it, so let us leave the oblique case 5 aside as very unusual in relation to all inanimate noun bases. Having said that, let us formulate the case endings for the other oblique cases namely 2, 3 and 4.

4.0.15. It must be admitted that the foregoing account is a fairly oversimplified statement of facts, but, except for most proper nouns, kinship nouns, status nouns and pronouns, and a few specific exceptions, it is a quite general statement of case endings of common nouns in Sinhalese so long as we rely upon the form of the 'noun word' and its formal scatter as the sole data in recognising case endings.

Throughout the foregoing section on case endings 4.0.16. we have accepted that the category of case is simultaneously associated with the other categories of number and definite--ness. But we can treat case separately from number and definiteness. I have already dealt with the categories of number and definiteness independently of case in chapter 3. Even on form alone we cam discuss case independently of number and definiteness if we study carefully the paradigmatic sets of nouns -- masculine, feminine and inanimate. Historically, we can substantiate the fact that the case markers in modern Sinhalese, even in the written language, came into existence at a later date in the course of the evolution of Sinhalese. At first, the case markers appeared as some auxiliary elements attached to noun phrases which already included the categories of nouns, number, definiteness and case in them, as the category of case had ceased to mark of its functions clearly in a formal way, owing to phonological changes resulting in

the course of evolution. Later on these auxiliary elements evolved phonologically, yielding to the case markers existing today. Accordingly, I believe that the case markers can be separated from the markers of number and definiteness. In the beginning, at the Prakritic stage, the categories of number, definiteness and case, all occurred together in a single marker. But later, new case markers were introduced when the markedness of the category of case in the endings of noun phrases was not clear enough. Thus the endings of those earlier noun phrases may be taken to represent number and definiteness only. Furthermore, in the course of evolution, number and also definiteness markers seem to have evolved independently. The definiteness is always unmarked whereas indefiniteness is marked separately beside the number marker. Thus we are not unjustified in dealing with number and definiteness independently in chapter 3.

4.0.17. Having justified the treatment of case independently of number and definiteness, I shall attempt to discuss case in Sinhalese not so much on a formal basis but rather on a syntactic and semantic basis. In this pursuit, I recognise the underlying syntactic semantic relationships as case relations and then attempt to account for the phonological realisations of these underlying case relations in Sinhalese. By doing so, the case relations of all noun phrases can be explained, whether they cansist of common nouns or not.

4.0.18. It is worth while to bear in mind at the outset,

the valid theoretical observation made by John Lyons:

4.0.19. In Sinhalese, case relations are realised in a number of ways. Some of them are realised as case (inflections or) suffixes. (These are the forms, but mostly with the preceding that number and definite markers,/have been treated as case suffixes in most grammars of Sinhalese.) There are some other case relations which are realised as postpositions in Sinhalese. Furthermore, some case relations are sometimes realised as postpositions containing (inflectional) suffixes in them. In the subsequent sections, I discuss case in Sinhalese in the attempt to account for most of these realisations.

4.0.20. Agreeing with J.Lyons, who states:

"Furthermore, these 'grammatical' and 'local' functions may be realized in the same language partly by case infle-xions and partly by other means -- most commonly by prepositions or postpositions, or by word order. This means that the category of case can not be discussed solely from a morphological point of view." I propose

to discuss case in Sinhalese taking into account the syntax

¹ Lyons, J. 1968, pp. 292 - 293; 2 ib. p. 302

of the language and not simply the paradigmatic sets of 'noun words'. We may recognise a set of case forms, on formal criteria, to include six suffixes and their variants and a number of postpositions.

4.0.21. In this study I recognise six case suffixes but some with variants occurring in complementary distribution. The case suffixes and their variants are not named on any notional grounds but are referred to as case form 1, 2, 3, 4, 5 and 6 respectively. These are given below:

case	form	1	>	ø
11	11	2	>	wə
11	11	3	>	Тə
11	11	4a	 →	gen
11	11	4b	>	en
17	11	4c	>	in
tt	11	5a	>	ge
11	11	5ъ	>	ee
**	11	5 <u>c</u>	>	ə
11	11	6 a	>	o(o)
11	11	6ъ	>	e(e)

4.0.22. We have further to recognise a set of postpositions such as, atin 'by', lange 'near', gaawe 'near' langeTe 'to near by', langen' from near by', stule 'in', uDe 'on', yaTe 'under', pahale 'back'....etc. to account for the realisation of some case relations. I shall introduce them in the relevant sections of this chapter.

4.1. <u>CASE RELATIONS IN SINHALESE</u>

4.1.1. On the basis of different relationships holding bet-ween noun phrases, either as nuclear constituents of proposit-ions or as extranuclear adjuncts, and the predicates of senten-ces, I distinguish a number of case relations in Sinhalese.
They may be stated thus:

Agentive 1 case Agentive 2 Objective Experiencer " Dative Source Case relation Goal Locative Directional " Instrumental" **Comitative** Time 11 Purpose Cause etc.

4.1.2. In subsequent sections of this chapter we shall examine these case relations one by one, and in some detail.

However, before attempting to explain the underlying case relations and their corresponding phonological representations, a brief account of the process of 'subjectivisation'in Sinha--lese is necessary.

4.2. <u>SUBJECTIVISATION IN SINHALESE</u>

4.2.1. Every proposition consists of a predicate with its presupposed arguments, namely the nuclear constituents of the

proposition. These arguments may be agents, patients, recipients or experiencers etc. depending upon the predicates (which are sometimes classified as one place, two place and threepplace predicates). If the predicate presupposes two arguments (i.e. a two place predicate), an agent and a patient, the agent argu--ment (i.e. NP in Agentive Case relation) is usually selected as the subject of the sentence. This logical selection of one argument or an NP in a particular case relation as the subject may be called the subjectivisation process. Except perhaps for stylistic or other reasons when transformations such as empha--sis etc. alter the favoured structure of sentences, the subject of a Sinhalese sentence is its logical subject. (To account for sentences where the subjects are not the logical subjects, we may recognise a 'thematic' subject. The thematic subject may be either a nuclear constituent (but not the logical subject) or an extranuclear adjunct. The logical subject may or may not the surface structure of occur in/such sentences. I do not wish to go into details of discussing the selection of a thematic subject as it is a matter for dispute and a knowledgeable study of stylistics as well as syntax would be required before it could properly be understood. I therefore limit myself to the selection of the logical subject of a sentence by the process of subjectivisation.)

4.2.2. I have already stated above that when a predicate presupposes an agent and a patient (objective) arguments with or without a recipient argument, the agent argument is subjectivised to be the deep subject of such sentences. If a predicate presupposes only one argument, an agent (i.e.NP in Agentive

¹ see Halliday, M.A.K., 1970, pp. 158 ff.

then that argument is automatically subjective case)
then that argument is automatically subjectivised to be the
deep subject of such sentences. Similarly when a predicate
presupposes an Experiencer argument (i.e.NP in Experiencer
case) with or without a (cognitive) object argument (i.e.NP
in Obj.case) then that Experiencer argument is selected as the
logical subject. Also when a predicate presupposes a recipient
argument (i.e.NP in Dative case) and an object argument (i.e.
NP in Obj.case) but without any agent arguments, then the recipient argument is subjectivised. This is true for all predicates
-- both verbs and adjectives. Thus the selection of the logical
subject as the deep subject of sentences in Simbalese, through
the process of subjectivisation may be stated in terms of case
relations as suggested below:

Agentive \Rightarrow subj. if Prop.= Ag. (+0bj.)(+Dat.)+verb[action].

Objective \Rightarrow subj. if Prop.= Obj. (..) + verb[process/state].

adj [stative]..

Experiencer= \Rightarrow subj. if Prop.= Exp. (+0bj.)+verb [perception].

Dative \Rightarrow subj. if Prop. = Dat...+Obj...+verb[possession?]

- 4.2.3. In this study I have distinguished two Agentive cases, Agentive 1 (v.4.3.) and Agentive 2 (v.4.4.) to include both volitive agents and involitive agents respectively. The Object-ive case (v. 4.5.) is a very wide case relation and it includes objects or patients, including cognitive objects as well, both animate and inanimate. Dative case includes the role of the reci-pient.
- 4.2.4. It is true to say that the Agentive 1 and 2, the Objective, the Experiencer and the Dative case relations are

-ents of propositions. In relation to some predicates a few more case relations may be recognised as being constituted within the nuclear propositions. They are the Source, the Goal, the Locative, the Directional, the Instrumental and the Comitative case relations. Most other case relations express the relation between extranuclear adjuncts and the predicates or the sentences. These will be dealt with in the relevant sections below. Opinions may differ as to whether all these are actually case relations or not. Nevertheless until Sinhalese syntax is fully explored and studied, we can not arrive at any reasonable decision as to what they are or how structures containing such expressions may be explained.

4.2.5. The subject of a sentence is the topic about which a comment or a statement is made, according to many linguists of the past and the present. However, in this study I have no alternative but to accept that the concept of subject in Sinhalese is an aspect of the deep structure. The subject of a sentence may thus be selected on a logical basis as I have suggested above (v. 4.2.2.). As far as all kernel sentences are concerned, by the process of subjectivisation we select the logical subject. It may or may not occur in the initial position of sentences although it is more likely to occur in that position than any other. For emphasis or some other stylistic reasons we may alter the word order and select some other constituent of the sentence to assume the initial position. This constituent is also taken to be a subject as it begins

the sentence. Thus bearing in mind the different possible selections of the initial constituents of sentences in different languages, we may have to recognise a number of surface subjects. For English Halliday recognises a number of subjects such as logical subject, grammatical subject and psychological subject. For Sinhalese too, I believe we may recognise at least two subjects, namely a logical subject, and a psychological subject (i.e. a thematic subject). I do not intend to discuss subjectivisation any further at present as it will only lead us into insoluble problems. So let us therefore examine the deep case relations and their corresponding phonological registions in the rest of this chapter.

4.3. AGENTIVE CASE 1

4.3.1. All volitive action verbs (V.5.1.1.,5.1.3.,5.1.7. and 5.1.8.) presuppose agent arguments (i.e.NPs in Agentive case 1) among other possible arguments and these agents act volitively and actively. Thus the Agentive case 1 may be defined as the relationship holding between those volitive agent arguments and the predicates. In all cases this volitive agentive case relation (or Agentive case 1) realised as zero. That is:

Agentive Case 1 --> Ø

e.g.

balla+Ø burenewa the dog bark The dog barks./ The dog is barking.

sarat+p potak kiyəwənəwa Sarath a book read Sarath reads a book./Sarath is reading a book.

¹ Halliday, M.A.K., 1970, pp. 158 ff.

For some more examples see 5.1.7. and 5.1.8. Thus the Agentive case 1 always takes the case form 1 (v. 4.0.21.) as its realisation.

4.4. AGENTIVE CASE 2

4.4.1. All involitive action verbs (v. 5.1.2.,5.1.3.,5.1.9. and 5.1.10.) also presuppose agent arguments (i.e.NPs in Agent-ive case 2) besides other possible arguments and these agents act involitively (or perhaps, passively) and unintentionally or accidentally. Thus the Agentive case 2 may be defined as the relationship between the involitive agent arguments and the predicates. The realisation of the Agentive case 2 is twofold. It is as -To if the verb is involitive intransitive. Or, it is either as -To in relation to some involitive transitive verbs or as atin in relation to some other involitive transitive verbs. Wemay summarise this realisation as:

e.g.

lameya<u>Te</u> æNDenewa The child cries (unintentionally)

minihaTe nayaawe pengunaa the man the cobra trampled accidentally The man trampled the cobra accidentally.

putaa atin mal pælee kæpuna (the)son the flower plant cut unintentionally (The) son cut the flower-plant unintentionally. (see also 5.1.9. - 5.1.11.)

This shows that the Agentive case 2 is realised either by case form 3 (v.4.0.21.) or by the postposition 1 atin.

4.5. OBJECTIVE CASE

The Objective case relation is one which exists 4.5.1. between an objective argument (i.e.an NP in Objective case relation) as the affected or effected participant or object of an action, process or state etc. and the predicate in question. Thus Objective case relation is a very wide spread case relation in any language. All verbs which are transitive presuppose arguments in Objective relation besides the other Agentive. Dative or Experiencer arguments. Verbs which are either process verbs or stative verbs , too, presuppose Objective arguments. Stative adjectives also presuppose: Objective argu--ments. Objective case relation may be realised in a number of forms. It is realised as zero in relation to the majority of verbs and adjectives. It may be realised as -we in relation to animate nouns. However this -we realisation is optional. It is realised as: -Te in relation to certain verbs and adject--ives such as those given in the formulation below:

^{1 &#}x27;Postpositions' are a class of phonologically recognisable 'words'. They are so called as they occur after noun phrases but never as suffixes. They perform different case functions but are different from suffixes in that they are potential 'words' whereas suffixes are not.

(wa) / NP__ if NP_>[N.in]

(if verbs = bani 'abuse'

kaa 'bite'

koTa 'peck'

etc.

if adj. = kæmati 'like'

aasa 'desire'

aadaree 'love,

be fond of'

balla { haawek ø } mæruwa the dog a hare killed

The dog killed a hare.

miniha gas+Ø kapenewa the man trees cut The man cuts trees.

seene baNDa<u>Te</u> bænna Sena Banda abused Sena abused Banda.

lameya<u>Tə</u> balla kææwa the child the dog bit The dog bit the child.

gange-Ø galenewa
The river flows .

miniha-Ø gedere innewa the man at home is The man is at home.

gee- koku-yi the house big is The house is big. It will be clear from the foregoing account and examples Case that the Objective, may be realised in one of three case forms, the case forms 1, 2, and 3 (v.4.0.21.). (For more examples see 5.1.7., 5.1.9., 5.2.1,, 5.3.3. etc.)

4.6. EXPERIENCER CASE

Most verbs of perception (v. 5.4.), except for those 4.6.1. marked for volition (i.e. deliberate mental activity) presuppose an experiencing 'patient' and that 'patient' is said to be in Experiencer case relation to the verb. An Experiencer is not a recipient of any object, so I think it is reasonable to treat it as a separate relation independent of the Dative relation (v.4.7.). However, we may take the volitive perception verbs to be equal with action verbs, as these verbs express mental activities. Thus the 'Experiencers' in relation to volitive perception verbs may be treated as agents (i.e.Ag. Ca. 1). Similarly we may treat the neutral perception verbs as having some neutral agentive arguments, like Agentive case2 (i.e.'involitive agents'; v.4.4.). However, involitive agents, or neutral agents, are not the same as neutral experiencers as they are not agents of any actions, so I recognise the Experiencer case relation as a relevant onw. The phonological realisation of this Experiencer case relation is as -Te, the case form 3 (v.4.0.21.). That is:

Experiencer case --> To

e.g.

minihaTe saddeyak ahuna the man a noise heard The man heard a noise. ballaTe riduna the dog hurt It hurt the dog.

taatta<u>T</u>ə keenti-giyaa (My)father got angry.

maTə baDəgini-yi
I hungry am
I am hungry.
(See 5.4. especially 5.4.3.-4. and 6.2.4. for further examples)

4.7. DATIVE CASE

4.7.1. There are verbs which among other arguments presuppose a beneficiary or recipient. If the verb is an action verb, then the logical subject agent is usually subjectivised. If the verb is one like læbe 'receive, get' hambe-we 'meet, find..'etc. then the recipient argument which is said to be in the Dative case relation is subjectivised. Thus the beneficiary or the recipient of an action or a result of an action is in Dative case relation to the verb. The most common action verbs which presuppose Dative case relation arguments are de 'give,' gaha 'hit, beat', heat', de 'give,' gaha 'hit, beat', heat', de 'give,' gaha 'hit, beat', de 'give,' gaha 'tell'etc. The Dative case relation, realised with the case form 3, namely Te (v.4.0.21.) and we may state this as:

Dative case --> Ta

e.g.

siriseena amarasinha<u>Ta</u> potak dunna Sirisena to Amarasinha a book gave Sirisena gave Amarasinha a book. gurutumaa laməyin<u>Tə</u> lassənə katandəreyak kiwwa the teacher to the children lovely a story told The teacher told the children a lovely story.

amma malli<u>Tə</u> liyəmənak yæwwa mother to younger brother a letter sent (My) mother sent a letter to (my)younger brother.

lameya ballaTo gæhuwa the child to the dog hit The child hit the dog.

ma<u>Te</u> taattagen liyumak læbuna to me from (my)father a letter received I received a letter from my father.

seena<u>Ta</u> nidaaneyak hamba-unaa to Sena a treasure found Sena found a treasure.

4.8. SOURCE CASE

4.8.1. There are verbs such as <u>Læbe</u> 'receive', <u>illə</u> 'beg, ask for', <u>illə-gan</u> 'borrow', <u>galəwə</u> 'remove (a bark etc.) etc. and some verbs of motion that presuppose arguments as sources of the actions or the motions etc. These arguments are said to be in the Source case relation. The realisation of the Source case relation is fairly complex. It is realised as one of the case forms 4a, 4b, or 4c (v.4.0.21.) (or as some other postpositions such as <u>imdəla</u> 'from', hiTaŋ 'from' etc.). The choice of case form 4a over 4b and 4c depends upon the animate—ness of the noun in the noun phrase, The choice of 4b against 4c is based on the vocalic or consonantal character of the final sound of the phonological noun phrase. I suggest the

following formulation to include most of these choices:

e.g.

maTə bænkuwen liyumak læbuna to me from the bank a letter received I received a letter from the bank.

sunil baNDaaragen pages illa-gatta
Sunil from Bandara the pen borrowed
Sunil borrowed the pen from Bandara.

miniha polek<u>in</u> elewelu wageyak genaawa the man from a fair vegetables some brought The man brought some vegetables from a fair.

This case relation is related to the Locative and the Direct-ional case relations as well (see Locative (4.10.) and the
Directional (4.11.) case relations).

4.9. GOAL CASE

4.9.1. There are some verbs, especially those denoting some kind of movement or motion which presuppose, among others, arguments as the goal of motion or activity. The idea of 'to a location', 'towards a location' or 'to the direction of a locat-ion' is expressed by this case relation. See also the Directional

¹ These may be explained differently; for example as resulting from coordination of two deep structure sentences, so I have included them within parentheses.

case relation (v.4.11.). Goal case relation is realised by the case form 3, To in most cases. That is:

Goal case --→ Tə

e.g.

seene kaDeeTe giyaa Sena to the shop went Sena went to the shop.

api kanda nagga
we to the mountain climbed
We climbed to (the top of) the mountain.

siril kolembe indela kurunæmgele<u>Te</u> aawa Siril Colombo from Kurunegala to came Siril came from Colombo to Kurunegala.

4.10. LOCATIVE CASE

4.10.1. In Sinhalese, existential verbs, <u>indi</u> 'exist, be 'and <u>tibe</u> 'exist, be, there is/are ...' mostly seem to presuppose arguments in Locative relation to the verbs, besides other arguments such as those in the Objective relation etc. Usually the noun phrases that occur in this Locative case relation consist of nouns which are mostly inanimate. Locative case relation is realised in one of two forms, 5b or 5c. We may state the realisation of the Locative case as:

e.g.

gal<u>ee</u> sellipiyak tiyenawa on the rock a rock inscription there is There is an inscription on the rock.

wawee bohome maalu innewa in the tank many fish there are There are plenty of fish in the tank.

watte¹ lassene pokunak tiyenewa in the estate beautiful a pond there is There is a beautiful pond in the estate.

kælææwele wal-sattu innewa in forests wild animals live/there are There are wild animals in forests.

4.10.2. However, it is difficult to suggest any precise principle for the choice of <u>ee</u> against <u>a</u> in relation to place names (i.e. proper nouns) which are mostly vowel final. Consider the following examples:

anuraadəpuree +ee \Rightarrow anuraadəpuree 'at/in Anuradhapura' kurunæægələ +ə²(?) \Rightarrow kurunæægələ 'at/in Kurunegala' (* " +ee \Rightarrow *kurunæægəlee but galə+ee \Rightarrow galee 'in/on the rock' is natural. kæægallə +ee \Rightarrow kæægalle 'in/at Kegalla' (*kæægallə+ə \Rightarrow *kæægallə). puttələmə +ee \Rightarrow puttələmə 'in/at Puttalam' (*puttələmə+ə \Rightarrow *puttələmə). alutgəmə +ə \Rightarrow alutgəmə 'in/at Alutgama' pasyaalə +ee \Rightarrow pasyaale 'in/at Pasyala'

¹ e is short as the structure is not CVCVV; see 11.3.2.

² This may be zero and if we accept # as one of the realisations of the Loc.case, our rule 4.10.1.must include # besides other markers.

4.10.3. Although it may not be absolutely consistent, one would not be wrong in suggesting that if the penultimate sylla-ble of the place name is a heavy one then there is every reason to believe that such noun phrases take <u>ee</u> as Locative marker.

If the penultimate syllable is a light one but not with <u>u</u> as syllabic vowel and the consonant of the final syllable is not <u>y</u>, there is more likelihood that such noun phrases take <u>e</u> as Locative case realisation. Yet cf. <u>putteleme</u> against <u>alutgeme</u> above. When the penultimate syllable has <u>u</u> as syllabic vowel or when the final syllable has <u>y</u> as its consonant then such place names too take <u>ee</u> as the Locative marker.

4.10.4. Finally it may be stated that there is some semantic link between the Locative case and the Directional case relations, perhaps one may find some link among Locative and Dative (?), Source, Goal, and Directional cases, because all these case relations express some relation to, from, near, at etc. of a location.

4.11. DIRECTIONAL CASE

4.11.1. Directional relation is not very different from the Locative relation. Yet, we may distinguish two case relations, since by directional relations we can refer to certain direct—
-ions in relation to certain locations (i.e.Locative). Thus by Locative case relation we mean reference to a location where—
-as by Directional case we mean reference to a direction in relation to a location. Within this 'direction' too we may recognise a number of relations such as Locative — i.e. the

direction as the location but in relation to another location—,

Source — i.e. the direction as the source but in relation to
a location — , and Goal — i.e. the direction as the goal in

relation to a location etc. Thus we may state the sub divisions

of the Directional relation as:

Let us examine these different directional case relations in the subsequent sections, and formulate a statement of their phonological realisation.

4.11 A. DIRECTIONAL LOCATIVE CASE

4.11 A.1. When a direction in relation to a location is referred to as a location, it is expressed by the Directional Locative case relation. Wher ever a locative relation argument is presupposed by a verb a directional locative argument may also be a substitute. In most cases this Directional Locative relation is realised by a number of expressions -- postpositions in traditional grammar -- indicating different directions.

Most of these direction indicating expressions are inherently associated with Locative case relation. However, some of these expressions can also take a locative realisation. Therefore, we may recognise the realisation of the Directional Locative case relation as:

Dir. Loc. --> direction indicator + Loc. case (v.4.10.)

4.11 A.2. Similarly for Directional Source and Goal case relations we may recognise a direction indicating expression

plus the Source case realisation or Goal case realisation.

4.11 A.3. Different direction indicating expressions may be introduced as suggested in the formulation below with the specified semantic content they express.

- Direction -	7>
[near, by']	[{lange }]
['lower part']	[{pahalə pallæhæ}]
['back']	[{passə piTipassə }
['up']	[u a]
['upper part']	[{uDaha inale ina
['in; inside']	\[\begin{cases} \pitter \ \ \pittel \text{tul-pxtte} \end{cases} \]
[front]	[issəraha]
[{ down' beneath' below']	$\left[egin{cases} \mathbf{ya^{Ta}} \\ \mathbf{pahala} \end{array} ight\} ight]$
['through'] ['across'] ['side']	\[\begin{cases} \text{haraha} \\ \text{m\$\text{\$\text{m}\$}} \\ p\$\text{\$\exititt{\$\exititt{\$\text{\$\ext{\$\ext{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\text{\$\ext{\$\text{\$\text{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\exititt{\$\ext{\$\ext{\$\exititt{\$\exititt{\$\exititt{\$\exititt{\$\exititt{\$\exititt{\$\exititt{\$\exititt{\$\exitititt{\$\exititt{\$\exititt{\$\exitititt{\$\exititt{\$\exititt{\$\exititt
['along']	[dige, digee]
[{ 'edge' }]	[{ ayin ³] mulla]
[{'out' }]]	[
['north']	[uture]
['south']	[dakunə]
['east']	[nægenəhirə]
['west']	[basnaahirə]
etc.	

4.11 A.4. Then the Locative case relation is in some cases $\emptyset(?)$ (i.e.unmarked), in others <u>ee</u> (v.Loc. case 4.10.). Here too <u>ee</u> is selected if the penultimate syllable is either a closed (i.e.long) one or one where the syllable vowel is <u>u</u> or <u>i</u> but <u>i</u> is not the <u>i</u> of <u>piTa</u> 'out' (v.4.10.3.).

Loc.
$$\longrightarrow \begin{cases} \begin{cases} ee \\ (en) \end{cases} / \begin{cases} \cdot \text{CVCCV} \\ \cdot \cdot \text{CuCV} \end{cases} \\ \text{cond. CiCV}_1 \neq \text{piTe} \\ \begin{cases} (in) \end{cases} / \text{else where} \end{cases}$$

e.g.

gee <u>langs</u> wawak tiyenswa house near a tank there is There is a tank near the house.

linda tiyenne watta pahala
the well is estate in the lower part
The well is in the lower part of the estate.

guhaawa <u>stule</u> lassana pilimeyak tiyenawa the cave inside beautiful an image there is There is a beautiful image imside the cave.

mame almariye u<u>Din</u> pote tibba

I of the cup board on top the book placed
I placed the book on top of the cup board.

4.11 B. <u>DIRECTIONAL SOURCE CASE</u>

4.11 B.1. As stated earlier (v.4.11.1.) when the direction of a location is referred to as the source of an action or process, such a relation is expressed by this case relation. The realisation of this case is as 'direction indicators' followed by Source case realisation (v.also.4.11 A.3.for direction

indicating expressions). That is:

Dir. Source case --- direction indicators + Source case direction indicators --- as given in 4.11 A.3.

e.g.

gee <u>stulen</u> gandak enewa
the house from inside a smell come
There is a smell coming out of the house.

watta pahalin dolak paTangannawa

(of)the estate from the lower part a stream start
A stream starts (to flow) from the lower part of the estate.

kanda pahala indala paaraTa hatakmak tiyenawa the mountain foot from to the road a mile there is

It is one mile from the foot of the mountain to the road.

4.11 C. <u>DIRECTIONAL</u> <u>GOAL</u> <u>CASE</u>

4.11 C.1. Certain verbs such as those denoting activities or processes involving motion, presuppose, among others such as agents and objects etc., arguments in Goal relation (v.4.9.). Directional Goal relation is related to the Goal relation of 4.9.: the Goal relation expresses the relation to a particular location and the Mirectional Goal relation expresses the relation to a particular direction of a location. The Directional Goal case relation too is realised by direction indicator plus Goal case marker. That is:

Dir. Goal case ---> direction indicator + Goal case direction indicator ---> as given in 4.11 A.3.

Goal case ---> Ta (v.4.9.)

e.g.

miniha galə <u>uDəTə</u> nægga
the man the rock top to climbed
The man climbed on (to the) top of the rock.

sunil kaameree <u>stuleTe</u> giyaa Sunil the room into went Sunil went into the room.

amma wattə pallæhæTə yannə æti
mother the estate to the lower side (have) go(ne) may
(My) mother may have gone to the lower side of the estate.

4.11 C.2. I am rather sceptical about my Directional case. The actual case relations involved there, are in fact those of the Locative, the Source and Goal . Should someone attempt to show clearly that the noun phrases involved are some complex noun phrases comprising NP + directional NP (?) or some thing similar, then I should be prepared to comsider such an account, unable as I am at present, to offer a more acceptable explanation. In such a case we need not recognise a different Directional case relation. Thus, leaving further research in Sinhalese to accept or reject the Directional case relation (and perhaps, some other case relations as well) postulated here, we move on to the next section.

4.12. INSTRUMENTAL CASE

4.12.1. It seems reasonable to suggest that there are some

action verbs such as kape 'cut', ire 'saw' etc. that obligatorily presuppose instruments as arguments besides other possibilities. There is also reason to believe that the Instrumental case relation is obtained in relation to extranuclear adjuncts of sentences too. In that case 'Instrumental case relation' has to be explained as a result of lexicalisation involved in the process of coordination. I am inclined to believe that it would be better if we could explain the adjunct expressions containing the 'so called Instrumental case' markers in terms of coordination. However, I leave this for a researcher in coordination to decide. The Instrumental case relation is realised by one of the case forms 4a, 4b or 4c (v.4.0.21.). The choice of 4a over 4b and 4c depends upon the animate and inanimate feature of the noun of the NP. The choice of 4b against 4c is decided by the vocalic or consonantal nature of the final phone of the phonological noun phrase. We may formu--late the realisation of the Instrumental case relation in Sinhalese as :

e.g.

miniha porewen gahak kapenewa
the man with the axe a tree cut
The man cuts a tree with the axe.

[porewe + en => porewen]

kolla kooTuwakin ballaTa gæhuwa the boy with a stick (to) the dog beat The boy beat the dog with a stick. kooTuwak + in => kooTuwakin

miniha harakungen kumbura haanawa the man with the cattle the field plough The man plaughs the field with cattle.

4.13. COMITATIVE CASE

Certain verbs like kataa-kara 'talk (with)', saakaccaakere 'discuss' etc. seem to presuppose arguments as co-agents where one agent is subjectivised, and the other agent is express--ed by this Comitative case relation. There is reason to believe that even with other verbs, 'co-agents and co-patients..' etc. may occur in sentences. In all cases one co-agent or co-patient is expressed by this case relation. This may be explained as noun phrase coordination. But, intuitively one feels that this is not simply joining of two NPs with a conjunction ekke ' (together) with'. The subject agent is always the initiater whereas the other comitative agent is not so. Similarly, with regard to objective arguments one object is also primary and the accompanying or comitative object is secondary. The realis--ation of the Comitative case relation may be represented as:

Comitative case --> (t)ekka(la)

¹ Instrumental case relation, however, is rarely or very infre--quently used in relation to noun phrases with animate nouns.

e.g.

miniha prasne mama-t(t)ekke(la)saakaccaa-keruwa the man the problem me with discussed

The man discussed the problem with me.

miniha ekka mama honda nææ
the man with I good no
I am not on good terms with the man.

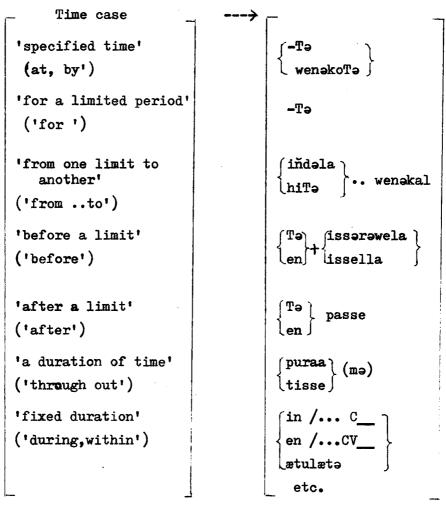
sarat wattat ekkama gee wikka
Sarath the estate with(too) the house sold
Sarath sold the house together with the estate.

4.14. <u>TIME CASE</u>

- 4.14.1. Noun phrases as expressions referring to different time spans hold different syntactic relationships with the predicates. Usually noun phrases in this time case relation occur as extranuclear adjuncts to propositions. Sometimes these noun phrases are accompnied by a numeral as a quantifier.
- 4.14.2. While admitting extreme difficulty in specifying these different relationships that hold between time denoting noun phrases and predicates, I shall still attempt to account for some of them as suggested in the following representation. This may be a great oversimplification of facts, but since I am unable to go into deep syntax at present, I limit myself to this formulation. In pursuit of this, I recognise a number of shades of time relation as:
- 'specified time', 'for a limited period time', 'from one limit to another', 'before a limit of time', 'after a limit of time'.

'through out a period or(long)duration of time', 'specified fixed duration' etc..

4.14.3. I propose the following formulation:



e,g.

mame havese tuneTe/(tune wenekoTe) etenTe ennan
I in the afternoon 3 at (3 when it is) there shall come
I shall come there at 3 Osclock in the afternoon.

miniha awuruddəkə<u>Tə</u> gamen piTə yanəwa
the man for a year from the village out go
The man goes away from the village for one year.

lamayi udee <u>hiTə</u> rææ <u>wenəkal</u> sella**ŋ-**kərənəwa the children from morning till night play The children play from/till night.

hawasa tuna<u>Ta issarawela</u> enna balanna in the afternoon 3 before to come try Try to come before 3 0'clock in the afternoon.

reme dahayəTə passe ennə epaa in the night 10 after come do not Do not come after 10 0'clock at night.

adə dawəsə <u>puraa(mə</u>) wæssa today day throughout rained It rained all day today.

mee waDee dawasakin karanna oona this work a day within do must (We) must do this work in a day.

eyaa pæyen eeka iwara keruwa he in an hour it finished He finished it in an hour.

mame dawssak <u>atulete</u> ee walee keredennan I within a day that work shall do for you I shall do the work for you within a day.

4.15. PURPOSE CASE

4.15.1. There is apparently some reason to suggest that certain verbs such as <u>suudaanam-we</u> 'get ready, prepare (oneself)', <u>idiripat-we</u> 'run, come forward', <u>lææsti-we</u> 'get ready' etc. presuppose certain agguments as purpose of the activity. However, there are other NPs which occur as adjuncts but express-ing a similar relationship. Such noun phrases, I believe have

to be explained in relation to coordination or subordination. In most cases this case relation is realised by the case form 3, To (v.4.0.21.). However, the same 'notion' is expressed by such expressions (? connectives) as wenuwen 'for, on the event..', sandahaa 'for' etc. To include all these realisations we may then postulate a rule as:

e.g.

he on the election a great deal spent He spent a great deal on the election.

nimal B.A. wibahageTe suudaanam-wenewa/lææsti-wenewa Nimal for the B.A. examination get ready/prepare. Nimal prepares for the B.A. examination.

4.16. CAUSE CASE

4.16.1. One may attempt to recognise a (pseudo?)(v.4.16.2. in.) case relation called the Cause case because one may come across some NPs occurring in sentences as adjuncts and which seem to be the arguments as the cause of the actions or process—es denoted by the verbs. If we can establish such a case relat—ion, then we may postulate its possible phonological realisa—tion as:

e.g.

minissu unen mærenawa
men/people from fever die
People die from/(because of) fever.

wæssə<u>Tə</u> gağgə piruna because of rain the river got filled The river was full as a result of rain.

awwen
awwe-nisaa
awwe-hinda

because of sun shine the plant died The plant died due to sun shine.

4.16.2. It seems reasonable to suggest that, despite unen due to fever'. wasseTe 'due to rain'. awweTe 'due to sun shine' etc. appear to be noun phrases with en and To case forms. these sentences have resulted through subordination. This is justified when we get the subordinate conjunctions nisaa 'because of', hinda ' because of' performing the same function of To and en. To and en, I presume, may have survived from the underlying sentence connectives eekaTa'as a result of it, because of it' and eeken 'out of it, from it, because of it 'respectively, where the pronoun eeka 'it' has been deleted in the process of subordination. Thus the so-called Cause case relation may be taken not as a true case relation but as a'pseudo' relation which in fact may be explained in relation to subordination in Sinhalese. The subordinate conjunctions nisaa and hinda after NPs may have remained as a result of a predicate deletion rule in this process.

- 4.1.3. I have discussed under a number of case relations some of the syntactic and semantic relationships that hold between NPs and predicates. One may postulate some more case relations or may reduce the number I have discussed hare, when one attempts to study the syntax of Sinhalese exhaustively. My study is not directed towards any exhaustive study of case in Sinhalese. I think it is sufficient to state that my attempt is only preliminary to a description of case in Sinhalese on a notional basis rather than on a formal or a paradigmatic basis.
- Furthermore, as suggested above, some of these case 4.1.4. relations occur in relation to certain NPs outside the nuclear: constituents of the propositions. These adjunct constituents may be explained differently when the syntax of Sinhalese is better understood. Certain expressions usually called adverbs have been discussed here under certain case relations simply because they can be so described. However, as I have already suggested when discussing 'Cause case relation' (v.4.16.), some of these case relations are undoubtedly not case relations. They appear to be NPs in some case relations because in the application of different processes of coordination, subordina--tion, nominalisation, relativisation etc., the underlying structures have changed drastically. Thus when we attempt to construct the deep structure of these 'disguised constructions', we may find that revision is necessary of some of the material included in the discussion of case relations. Some special cases, such as different Directional case relations (4.11:4.11A;4.11B;

- 4.11C.), Comitative case relation (4.13), Time case relation (4.14.), Purpose case relation (4.15.) and Cause case relation (4.16.), may be mentioned as those which are more likely to subject to revision.
- 4.1.5. To conclude this chapter we must, however, two more markers that are different from those discussed in the above sections. These are the so-called Possessive or Genitive marker and the Vocative marker. The former is related to the process of nominalisation and the latter is concerned with addressing others to draw their attention to what one is going to say. Thus these two are not deep syntactic semantic relations.

 These two surface markers will be discussed in the following sections.
- 4.17. POSSESSIVISATION AND THE POSSESSIVE MARKER
- 4.17.1. What is generally called the 'Possessive case' is not a syntactic semantic case relation similar to those like Agentive case relation (v.4.3.;4.4.), Objective case relation (4.5.) etc. It does not express any dependency holding between an NP as an argument and a predicate. It rather shows an adnom-inal dependency. Thus its function is mostly similar to the adjective of a derived nominal phrase resulting from the process of relativisation.
- 4.17.2. However the possessive marker is introduced into noun phrases derived through the process of nominalisation where possessivisation plays an important role. In the process

of relativisation as well, especially when the predicate is aviti 'belong', possessivisation introduces the possessive marker when the predicate is deleted in the process. The possessivisation does not apply to nominalised clauses but only to nominalised phrases.

4.17.3. Thus the phrasal nominalisation introducing possessi--visation may be formulated as:

S: $NP(subj) + (NP) + pred + Aux \implies NP: NP_{poss} + (NP) + pred + nom.$ e.g.

miniha bat ka+nə-wa the manrice eat The man eats rice.

⇒ minihage bat kææme the man's rice eating The man's eating rice...

but of.

The man eats rice.

miniha bat kanewa \implies N.clause: miniha bat kane-eke The fact that the man eats rice....

Then possessivisation in relation to relativisation 4.17.4. may be stated as :

S:
$$NP_{T_{\Theta}}$$
 +NP+ ayiti -yi \Longrightarrow Rel.clau: $NP_{T_{\Theta}}$ +ayiti +NP \Longrightarrow NP: NP_{ge} +NP.

e.g.

maTə wattə <u>ayiti</u>-yi ⇒ maTə <u>ayiti</u> wattə ⇒ to me the estate belong to me belong the estate The estate belongs to me. The estate which belongs to me. mage watta my estate.

4.17.5. Thus an NP with a possessive matker does not have an underlying case relation similar to those case relations discussed earlier in this chapter. It only has a surface marker introduced to it in the process of nominalisation and relativi-sation, where possessivisation has a role to play. The posse-ssive marker is ge if the NP to which it is introduced, has an animate noun in it, or it is mostly zero or sometimes ee if the NP has an inanimate noun in it. Thus the possessive marker is:

possessive marker ->
$$\begin{cases}
 \text{ge / NP} \\
 \text{N.} \\
 \text{ee / NP} \\
 \text{ee / N.} \\
 \text{-ani}$$

e.g.

mage pota My book.

pansəlee kumburə
temple's paddy field
(The paddy field which belongs to the temple.)

4.18. THE VOCATIVE MARKER

4.18.1. A Vocative expression is a nominal expression (i.e. NP +Voc. marker) lying out side those NPs with the syntactic semantic case relations. A noun phrase, especially one with an animate noun, together with this vocative marker is used only in addressing a person in drawing the hearers' attention to—
-wards the speaker. However, the Vocative has a number of mark—
-ers which may be represented thus:

```
Vocative case --→
```

```
e.g.
```

```
lameyo ( lameya + o )
child,

kelle (kellə +e )
girl,

taatte ( taatta + b )
father,

subəsinhə ( subəsinhə + ø )
Subasinha,

kollənee ( kollan + ee)
boys,
```

4.18.2. There are a few special expressions in Sinhalese, which are sometimes called 'Vocative words' as they are used in addressing a person without using his/her name. These may be explained as 2P pronouns with Vocative marker \$\mathscr{\phi}\$. However, all 2P pronouns do not occur as 'Vocative words'. Consider the following examples:

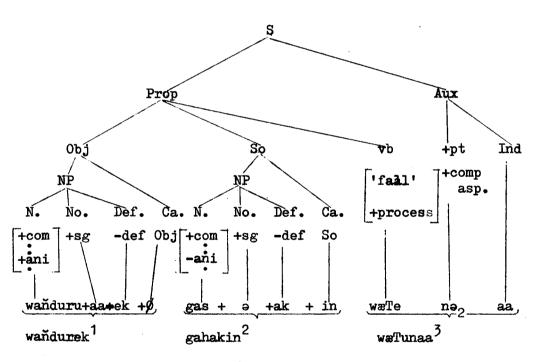
ooyi , tamuse kohede yanne
ayise , " " "
bolat , " " "
(you) you where go
(You), Where are you going ?

4.1.6. Finally, in a conclusion to this chapter on Case in Sinhalese. I draw attention to the fact that it is an extremely difficult task for anyone to describe the case system of a language precisely and accurately establishing exact boundari--es between one case and another, and defining and establishsyntactic and -ing each case on/semantic functions they are supposed signal. Until we understand more about the syntactic and semantic facts about the category of case as a universal, we shall be unable to explain many surface differences found in various languages. Thus Jesperson's statement that "cases form one of the most irrational part of language in general" may be considered true so long as we consider only the surface differences and so long as we remain ignorant of the rational or logical basis of case as a universal.

4.1.7. Having discussed different aspects of the noun phrase,

from its deep structure to the surface structure phonological representation in Sinhalese in the foregoing chapters, let us now derive a surface (phonological) structure of some noun phrases of a sentence as a conclusion to Part One. (Then by the application of some internal (see Ch.11.) and external (see Ch.12.) sandhi rules we arrive at the phonetic form of words, and the sentence). Let us take the following sentence:

wandurek gahakin wæTuna a monkey from a tree fell A monkey fell from a tree.



[wandureg4gahakin5wæTuna6]

1 <u>wandurek</u> has resulted through a number of combinations. First the noun <u>wanduru</u> + <u>aa</u> combine to form <u>wanduraa</u> (v.11.2.3-11.3.4(a)), then <u>wanduraa</u> + <u>ek</u> combine to form <u>wandurek</u> (v.11.2.3-11.2.4(b)) and finally <u>wandurek</u> + Ø produce <u>wandurek</u>. All these sandhi rules occur within the word.

2 gahakin too has resulted through the application of a number of internal sandhi rules. First the noun gas + a are combined

to produce gase (v.11.2.10.); then gase + ak are joined to form gasak (v.11.2.3. - 11.2.4(b)); then gasak + in are joined to produce gasekin (v. 11.2.10., and for the change of -a- to -a- v.11.3.6.iii) and finally (this could have been applied earlier after the first combination had it been so desired) -s- of gasekin is changed to -h- producing gahakin (v.11.3.3. Rule 9; now the change of -a- to -a-is due to h, v.11.3.4. Rule 10).

- 3 wæTunaa is from wæTe + n_{2}^{1} + aa : wæTe (or CVCe) before n_{2}^{2} is wæTu (or CVCu); wæTu + n_{2}^{2} produce wæTuna and when wæTuna is followed by aa the combination produces wæTunaa.
- 4 wandureg is the result of $k \Rightarrow g / \# g$. (see ESR 5, 12.1.5.).
- 5 gahakin iis the result of $\underline{n} \Rightarrow \underline{n} / \underline{\#} g..(see ESR 7, 12.1.5.).$
- 6 wæTuna is from wæTunaa by rule 8 ii (v.11.3.2.).

Let us conclude Part One which deals with the syntactic and semantic properties and their corresponding phonological realisation of the noun phrase in Sinhalese at this point, leaving the setting up of some phonological noun classes to account for the choice of some morpheme variants and the account of some morpheme variants to be introduced later in Part Three, the section on Morphophonology, notably in chapter nine (9).

I. V. 8.5.7.

PART TWO

PREDICATE

PART TWO

PREDICATE

INTRODUCTION

II.1. In Part One I attempted to discuss different aspects of the noun phrase. In this part, I propose to examine different aspects of predicates. By predicates, I mean both verbs and adjectives. In the case of equational sentences NPs also occur as predicates. In such sentences both NPs refer to the same object, the relation being expressed by the copula verb which is present as an auxiliary. Apart for this relation, however, these noun phrases are no different from those discussed in Part I. I only add that the NPs in equational sentences occur in a neutral, possibly in the Objective case relation. Thus, leaving aside the noun phrase in equational sentences, we discuss as predicates of propositions verbs and adjectives only. We may, then, expand the predicate of a proposition, thus:

$$\begin{array}{ccc} \text{predicate} & & & & \\ & & & \\ \text{adjective} \end{array} \right\}$$

II.2. In the chapters that follow, I shall attempt to discuss different types of verbs and adjectives and their corresponding phonological representations in relation to Sinhalese.

CHAPTER 5

5.0. THE VERB IN SINHALESE

- 5.0.1. The verb is an abstraction referring to one of the following: an action (or an activity), a process (or an event), a state or a 'perception'. These actions, processes, states and perceptions are non-linguistic events and verbs are therefore expressions signalling those actual situations.
- 5.0.2. There are situations in which some participants or agents perform certain actions. These actions are expressed by action verbs. To perform different actions, agents -- with or without patients -- are a primary requirement. Similarly act-ion verbs as expressions which symbolise those actions pre-suppose agent arguments (NPs), with or without patient arguments, depending upon the action referred to by the verb.

 (v.5.1.).
- 5.0.3. There are situations where some patients, both animate beings and inanimate objects, are subject to different processes. These processes are expressed by process verbs. Process verbs naturally presuppose patient (or objective) arguments (v.5.2.; also cf. 4.5.).
- 5.0.4. There are situations where some patients are subject to remain in or to posess certain conditions or states. Verbs expressing these states are called stative. Since they denote some idea of existence or prevalence over a considerable period of time, I think we can include the 'existential verbs' within this class of verbs. Thus, these verbs presuppose patient (or

objective) arguments with or without locative arguments in accordance with the situation referred to by the verb(v.5.3.).

- 5.0.5. There are also situations in which an animate being experiences certain feelings, perceptions or concepts. In all such situations, someone experiences something -- a'perception'. If we associate the notion of 'patient (or object)' with this experiencing of 'perception', then an experiencer (i.e. a being) and a patient (or an object) are prerequisites of the situation. Accordingly, the verbs expressing such situations are called verbs of perception and they presuppose an experiencer argument as well as an (experiencing) patient (object) argument in relation to many such verbs (v.5.4.).
- 5.0.6. In accordance with the foregoing account we may establish four major classes of verbs, which may be represented as:

We shall examine these verbs in the following sections.

5.1. ACTION VERBS

5.1.1. There are situations in which actions are performed by agents, consciously, deliberately, actively or volitively. I propose to call the verbs denoting these actions 'volitive' (i.e. [+vol]).

- 5.1.2. There are other situations where agents perform different actions but not very consciously, unintentionally or involitively. The verbs denoting such actions we shall call 'involitive'(i.e.[-vol]).
- 5.1.3. Both these classes of acton verbs (i.e.[+vol] or [-vol]) may also presuppose patients. If a verb presupposes a patient (/Object) it is called transitive (i.e.[+Tr] and if it does not presuppose any patient(/object) it is called intransi--tive (i.e.[-Tr])
- 5.1.4. According to the foregoing account all action verbs are either volitive or involitive as well as either transitive or intransitive. A formal representation of action verbs is here suggested:

werb [+action] --> [+ vol ; + Tr]

may use predicate instead of verb to account for predicative adjectives as well) determines what the rest of the sentence will be like; in particular, that it determines what nouns (better noun phrases) will accompany it, what the relation of these nouns to it will be, ...etc. Assuming this to be a valid argument, I shall recognise the predicate — both verb and adjective — to be the most dominating constituent of a sentence. All the arguments, noun phrases, presupposed by verbs must be specified for all the verbs of a language, also taking into account the different semantic contents a particular verb may have as an expression signalling different situations. Thus,

¹ Chafe, W.L. 1970, p.97.

in addition to agents and patients(/ objects), action verbs

may presuppose additional arguments. However, a full specification of all these arguments should be dealt with in a lexicon, although a few generalisations can be stated in relation to case relations of a language (see Ch.4 for some discussion of case in Sinhalese). A full specification of noun phrases that accompany verbs is, then, left to the lexicon of Sinhalese.

5.1.6. Following the minimum specification I have suggested for action verbs, we may recognise four possible classes of action verbs. These four classes of action verbs are formulated below, and some examples given.

5.1.7. If the verb [+action] is [+vol] and [+Tr] it may have realisations similar to the verbs given below depending upon the action referred to:

'swallow'

mare 'kill' kape 'cut' sarese 'decorate' ari 'open, send' illa 'beg, request' de 'give' ewa 'send' wikuna 'sell' kiyə 'tell' galla 'smear' ella 'hang' ula 'rub' amunə 'attach, annex...' hoye 'search, look for' bani 'abuse' ⇒ etc.

e.g.

maama pirit maNDappe gok-kolewelin saresenewa uncle pirit-pavilion with gok leaves decorate (My) uncle decorates the pirit-pavilion with gok leaves.

hinganna magen kanDə mokut illawa (<illə 'beg') the beggar from me something to eat begged The beggar begged something to eat, from me.

kiri-amma nandeniiTe kaTandereyak kiyenewa grand mother to Nandani a story tell (My) grand mother tells a story to Nandani.

Iff the verb [+action] is [+vol] but [-Tr], its realis-5.1.8. -ation may be as one of these given below according to the action referred to :

aNDo 'cry'
naTo 'dance'
ete 'crawl'
elle 'cling to'
nagi 'climb up, ascend'
bahi 'climb down, descend'
duwo 'run'
pani 'jump'
e 'come'
ya 'go'
næg'" nægiTi 'wake up, get up, rise..!

e.g.

lameya aMDənəwa the child cry The child cries / The child is crying. næTTuwa hondəTə naTənəwa the dancer well dance The dancer dances well.

balla kaaTede <u>bure</u>newa the dog at someon, bark The dog barks at someone.

lamayi okkome <u>hinæhu</u>na (<hinæhe 'laugh')
children all laughed
All the children laughed.

5.1.9. When an action verb is involitive and transitive it may be realised as one among the following class of verbs:

e.g.

lameyaTe nikamme naahe allenewa the child without any reason nose touch unconsciously The child unintentionally touches his nose without any reason.

seekere atin gas pahak <u>kæpi</u>la (< kæpe) Sekara (by) trees five has cut unintentionally Sekara has cut five trees unintentionally.

man atin eyaage pote <u>iru</u>na (< <u>ire</u> tear unintentionally)
I (by) his the book tore
I tore his book unintentionally.

5.1.10. One may observe some overlapping between certain involitive action and process verbs. The difference lies in the fact that involitive faction verbs presuppose agents

although they perform these actions without any comsciousness of this whereas process verbs do not presuppose any agents as such. Compare the following sentences:

seene wiiduruwe <u>binda</u> (= [+vol; +Tr]) Sena the glass broke Sena broke the glass.

seene atin wiiduruwe <u>binduna</u> (= [-vol; +Tr])
Sena (by) the glass broke unintentionally
Sena broke the glass unknowingly(/by an accident)

wiiduruwa <u>binduna</u> (= [+process])
The glass broke.

5.1.11. When an action verb is involitive and intransitive, its phonological manifestation may be as one of the following:

e.g.

bers saddeTs lameyaTs neTenswa drum sound (for) the child dance unintentionally The child begins to dance unintentionally when he/she hears the sound of a drum.

horaawa dækkama maTa <u>kæægæhu</u>na
the thief when saw I screamed unintentionally
I could not help særeaming when I saw the thief.

5.2. PROCESS VERBS

5.2.1. As these verbs presuppose a patient (or object)
which is subject to the process denoted by the verb, the concepts

of volition and transitivity have no relevance here. However, these verbs may occur with adjunct noun phrases, apart from the obligatory objective argument of the proposition. We can formulate the process verbs simply as:

e.g.

amba <u>ide</u>nawa

The mangoes ripen.

mehee elawalu bohoma homdaTa wwwDenawa here vegetables very well grow Vegatables grow very well here.

gahen bimeTe leenek wæTuna
from the tree to the ground a squirrel fell
A squirrel fell from the tree to the ground.

gal deke ateren wature unenewa the two rocks from between water coze Water cozes from between the two rocks.

5.3. STATIVE VERBS

5.3.1. As mentioned earlier (v.5.0.4.) Stative verbs also presuppose a patient (or object) mostly with a locative argument. However, Stative verbs may presuppose — in certain situations — a patient (or object) as possesser and another patient (or object) as the possessed. Thus, allowing ourselves to use the concept of transitivity, we may recognise two types of Stative verbs as transitive stative verbs and intransitive stative verbs are accompanied by locative arguments. Thus we may formulate the stative verb as:

5.3.2. If the stative verb is [+Tr], its realisation is as:

verb [+stative] --> dan 'know'
[+Tr] ?

e.g.

mahatteya hondəTə itihaase <u>dannə</u>wa the gentleman well history knows The gentleman knows History well.

5.3.3. If the stative verb is [-Tr], then it may be realis-ed as one among the following verbs:

e.g.

gale uDe ballek <u>inne</u>wa the rock on a dog is There is a dog on the rock.

taatta gedərə <u>innə</u>wadə lameyo father at home is child Is your father at home, child?

apee wele ayine naane lindak tiyenewa our field edge by a bathing well is There is a bathing well by the side of our field.

5.3A. POSSESSIVE VERB

5.3A.1. I think it reasonable to include the two 'possessive verbs' in Sinhalese, <u>indi</u> 'have' and <u>tibe</u> 'have' under stative verbs, as they are similar in form as well as related in meaning. As possessive verbs, <u>indi</u> and <u>tibe</u> presuppose a possesser and a object noun phrase, and as stative verbs <u>indi</u> and <u>tibe</u> presuppose a locative and a patient(/object) noun phrase. The locative noun phrase remains in that case relation but the possesser is mostly in the Dative case relation, as the beneficiary or the recipient of the 'object or patient'. There is also the possibility of treating the 'possesser' as a lecation when we consider such sentences such as:

maTə potak tiyenəwa
to me a book have /(there is)
I have a book.

and

mame lange potak tiyenewa
me with a book have / (there is)
I have a book with me./ There is a book with me.

Compare also:

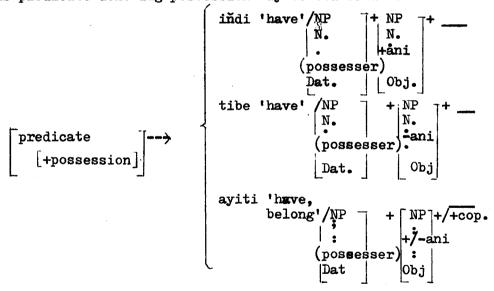
mee gamaTa wawak tiyenawa

to this village a tank has/(there is)

This village has a tank. /There is a tank <u>for</u> this vllage. and.

mee gamee wawak tiyenawa this in village a tank there is There is a tank in this village

5.3A.2. Whichever view is taken the fact remains that in expressing inalienable possession, the two possessive verbs indi and tibe are always used. In expressing alienable possess—ion there are two possibilities, either the use of those poss—essive verbs indi and tibe or the use of the predicate adject—ive ayiti 'belong'. Verbs indi and tibe occur in complementary distribution; indi when the patient(/Objective) noun phrase is marked [+animate] and tibe when the same is marked [-animate]. Thus predicate denoting possession may be stated as:



e.g.

eyaaTə putek <u>in</u>nəwa (<u>in < indi</u> v. 10.6A.6) to him a son has He has a son.

minihaTə geyak <u>tiye</u>nəwa to the man a house has The man has a house. 5.3A.3. There are a few more classes of verbs which apparent—
-ly exhibit some relationship with stative verbs. I shall attempt
to discuss them later in this chapter (see 5.5. and 5.6.).

5.4. VERBS OF PERCEPTION

As suggested earlier (v.5.0.5.) these verbs express 5.4.1. situations involving mental activities, processes or states -perceptions. When sense organs come in contact with the outside world where we find objects, sounds, smells etc., the cognitive capacity of the mind is capable of perceiving those objects of contact. In situations where cognition plays an important role, a living being, usually human, must be present. Furthermore his sense organs, eyes, mouth, ears, tongue, nose, hands, feet, whole body and above all his mind must be perfect and undamaged. Sometimes the man uses his brain (mind) to act, and verbs expressing such mental activities may be called [+vol] percept--ion verbs. In addition all such activities require a subject (= a topic) about which a being can employ his mind to act. This requirement of a 'concept' (a (cognitive) object) may be represented by a [+Tr] feature. Thus there are verbs which are [+vol] and [+Tr]. We may represent them as:

e.g.

lameya tissemə amma gænə <u>hitə</u>nəwa the child always (his/her)mother about think The child always thinks about his/her mother. 5.4.2. I may state here that whether the verb denotes mental activity or physical activity, all verbs of perception or other-wise, denoting activities behave syntactically alike in Sinha-lese. Thus the experiencing agent is subjectivised in relat-ion to verbs of perception which are volitive. The 'concept' the cognitive object occurs mostly in the Objective case relation.

5.4.3. However, the majority of perception verbs are neutral as to volition, since if one's sense organs are not damaged, one can not help but perceive things, have feelings -- both process--es and states of the body. Thus using 'object' as to denote the (cognitive) objects (or concepts) of sensory perception, we see these verbs as mostly presupposing two arguments, and experiencer subject as well as an object of sensory perception.

Employing the concept of neutral volition and transitivity these verbs can be specified as:

```
verb [+perception]
[neutral vol]
[+Tr ]

and 'hear'
pene 'see , perceive,..'
daki¹'see'
dæne 'feel'
wæTahe 'understand'
hite 'occur,..'
teene 'understand'
kalpanaa-we 'occur'
etc.
```

e.g.

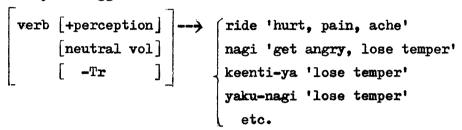
maTe lassene sinduwak <u>she</u>newa
I lovely a song hear

I hear a lovely song.

^{1 &}lt;u>daki</u> behaves differently. With all other verbs of this class the experiencer subject appears with <u>To</u> case form; with <u>daki</u>, the experiencer subject appears with \emptyset case marker.

kollaTə eyaage kataawə <u>teeruna</u>
the boy his speech understood
The boy understood his speech.

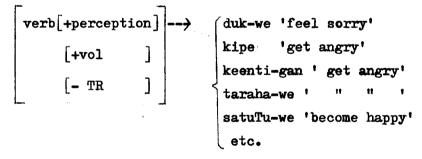
5.4.4. There are a few verbs of perception which are neutral as to volition and are intransitive. The following representation may be suggested:



e.g.

poDDak ættan minihaTə naginəwa
a little if there is the man get angry
If there is a small(fault) the man gets angry.

5.4.5. We may recognise another sub class of perception verbs as volitive and intransitive. That is:



e.g.

mee kataawa kiwwot miniha man ekka taraha-wenawa this story if tell the man me with get angry

If I tell him this story he will be angry with me.

malli pæredunaaTe amma <u>duk-wenewa</u> younger brother for (he) was defeated (my) mother feel sorry (My) mother feels sorry about the fact that (my)younger brother was defeated.

- 5.4.6. Although intransitiveness of some of these verbs may be a matter for dispute, their volitiveness is clear, because syntactically the experiencer is realised with Ø case form fust as it is the case with the Agentive case in relation to volitive action verbs.
- 5.4.7. If we attempt to study these verbs individually while undertaking to explain the facts of syntax and semantica connect-ed with them, we may have to establish some more sub classes.

 In the present study, however, such a detailed account can not be expected due to the present lack of information about syntac-tic and semantic facts of Sinhalese.
- 5.4.8. There are many formally complex verbs in Sinhalese. These, too, must be included in the relevant verb classes. Semantically and syntactically they are similar to those verbs discussed in the above sections. Phonologically, however, their difference has to be recognised and explained. (This has to be achieved in relation to Derivation in Sinhalese, which is beyond the scope of this study.).

5.5. COPULA VERB

5.5.1. It is extremely difficult to explain what is called the 'copula verb' in Sinhalese, without going into details of syntax where such verbs occur and then without tracing the semantic content they express. It seems to me that the copula verb is a representation of a deep stative verb -- the existent--ial stative verbs are mostly represented by the copula verb;

furthermore, the stative verbs which the copula verb represents may have resulted from process verbs. In all such cases these stative verbs are deleted and the copula verb is introduced to mark the auxiliary component — especially the categories of non past tense, generic aspect and indicative mood. Thus the copula verb as an auxiliary component of a sentence will be introduced in the chapter on the Auxiliary component (see 8.12.). Because of the complexity of deep facts of the copula verb, however, I do not propose to discuss any syntactic and semantic facts about it in the present study.

5.6. STATIVE MODAL PREDICATES

- 5.6.1. Let us consider another class of predicates, which may be called stative modal predicates. These predicates exhi-bit some relationship to stative verbs, as they always denote a non past, prevailing or would be state. The past tense form may be used in establishing the stative character of these predicates. In addition to this predicative function, these expressions function as modal auxiliaries -- as realisations of the auxiliary component of a sentence to signal modality. This function will be discussed in the relevant section of the chapter on the Auxiliary component of a sentence (see Ch.8).
- 5.6.2. J.W.Gair (1970, p.38) has treated these predicates as quasi-verbs on a formal basis, taking into consideration the few forms of their paradigmatic set of forms which show some similarity with the corresponding forms of verbs in their formal scatter. They may be called verbs or adjectives on

semantic grounds as they express states or conditions, but to include both I prefer to use the term predicate.

5.6.3. The stative modal predicate may be formulated with its phonological manifestations as:

e.g.

maalaTə pæænak <u>oonæ</u>

Mala a pen want

Mala wants/needs a pen.

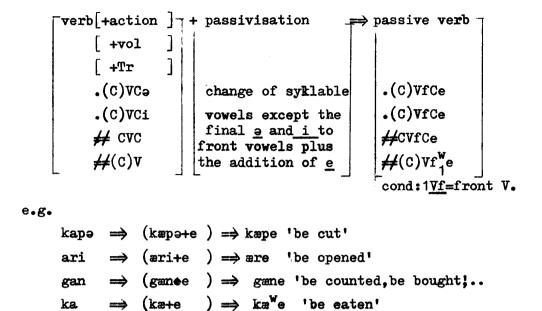
putaaTə ganan <u>puluwəni</u> son Arithmetic can (do) (My) son can do Arithmetic.

5.7. PASSIVE (VERB) IN SINHALESE

5.7.1. Passive sentences in Sinhalese are highly problematic. Jesperson (1933, p.120) states that "one and the same idea can often be expressed in two different ways, by means of an active, and by means of a passive construction ".This may not be true for Sinhalese. All action verbs which are volitive and transit—ive (v 5.1.7) can have declarative (active) sentences with an agent argument and an objective argument. It is only these sentences that are potentially capable of being made passive sentences. In spoken Sinhalese most declarative sentences with volitive transitive action verbs can not be expressed in the passive. I believe that most propositions with predicates consisting of volitive transitive action verbs in Sinhalese

can be expressed only by active declarative sentences and not by passive ones.

- 5.7.2. In place of expressing 'one and the same idea..' by a passive sentence, some sort of passive action by the agent involved is expressed by what I have called the involitive transitive verbs in Sinhalese. If we can call this passive, then passive sentences in Sinhalese are different from active sentences semantically.
- 5.7.3. In the case of spoken Sinhalese passive sentences even as stylistic variations of active sentences may be lacking. If there are cases where both active and passive sentences are available, it may be either due to the influence of the written variety, or an attempt to use the written variety for speech as well (mostly in very formal situations).
- 5.7.4. However, there may be occasions when an educated person may use a passive construction in place of the more natural and predominant active usage. To accommodate such rare sentences in the study of spoken Sinhalese, I propose to derive passive verbs from the active volitive transitive verbs as resulting from the process of passivisation. I propose the following rule, employing the syllabic structure of volitive transitive action verbs to derive passive verb forms:



5.7.5. With this deliberately short account of passive verb formation and passive construction in Sinhalese, I conclude the chapter on verb in Sinhalese.

CHAPTER 6

- 6.0. ADJECTIVES IN SINHALESE
- 6.0.1. It is rather difficult to explain and define the expressions called adjectives precisely on semantic and syntac-tic criteria. Some grammarians prefer to include adjectives under nouns. Most modern linguists attempt to explain adjectives as predicatives. Assuming that most adnominal attributive expressions can be derived either from predicative adjectives and werbs through relativisation or from some other sentences through nominalisation and lexicalisation (this includes compound nouns), I shall attempt to discuss here only those adjectives which are predicatives and not adnominals.
- 6.0.2. In most cases when these predicative adjectives occur as predicates of propositions, the auxiliary of sentences with such propositions occurs as a 'copula verb'. Thus the auxiliary marks the tense, aspect and mood categories and the adjectives are similar to verbs. Accordingly, in this study, adjectives are studied in a similar way to the verbs in the previous chapter.
- 6.0.3. It seems reasonable to suggest that most adjectives are stative predicates denoting different states and are thus inherently [+stative]. Taking into consideration the number of arguments they presuppose, I propose to recognise two classes of predicative adjectives: transitive and intransitive. All [+stative] adjectives are either [+quality], [+perception] or [+measure] if they are intransitive. They are either [+desire] or [+possession] if transitive. Thus the features of adjectives

in general may be formulated as:

In the following sections we shall examine these classes with examples.

6.1. STATIVE TRANSITIVE ADJECTIVES

6.1.1. Adjectives which are called transitive presuppose two arguments comprising the proposition. One an experiencer or an owner or possesser argument which is [+animate] is mostly subjectivised. We may formulate transitive adjectives as suggested below:

e.g.

balallu dii-kiriwələTə <u>kæməti</u>-yi cats to curd like (is) Cats like curd.

lamayi miipæniwələTə <u>aasa-yi</u> children honey fond of are Children are fond of honey.

ammala daruwanTə <u>aadəre-yi</u>
mothers to children fond of are
Mothers are fond of their children.

And:

e.g.

minihaTe watu gaanak-me ayiti-yi
to the man estates a number of belong(are)
A number of estates belong to the man.

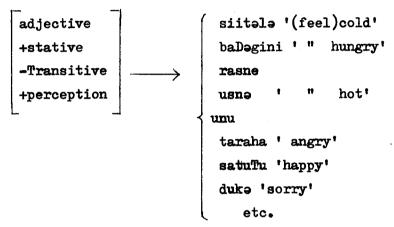
6.2. <u>INTRANSITIVE</u> <u>ADJECTIVES</u>

- 6.2.1. All intransitive adjectives of different semantic content (v.6.0.3.) presuppose Objective arguments, which are naturally subjectivised. According to the formulation suggest—ed under 6.0.3, we have established three classes of intrans—itive adjectives. Different realisations of these three classes are illustrated in the following sections.
- 6.2.2. If the stative intransitive adjective denotes a quality, one among the following may be taken as the corresponding adjective form.

e.g.

apee kiri-amma dæn hungak mahalu yi our grand mother now very old is Our grand mother is very old now. mee pote bohome honda-yi this book very good is This book is very good.

6.2.3. If the stative intransitive adjective denotes the perception of an experiencing being, one of the following expressions may be selected as signals of those states of perception.



e.g.

maTe hari siitela - yi
I very cold (am)
I feel very cold.

lameyinTe bohome <u>baDegini</u> yi the children very hungry are The children are very hungry.

seekərə seenə ekkə <u>taraha</u>-yi Sekara Sena with angry is Sekara is angry with Sena.

6.2.4. If the stative intransitive adjective denotes a meas-ure of different objects, places or time etc., one of the follow-ing forms may be taken as the associated expression.

e.g.

mee puTuwe hari <u>bara-yi</u> this chair very heavy is This chair is very heavy.

kaameree aDi siiyak witere diga -yi the room feet 100 about long is The room is about 100 feet long.

apee linde bambe pahak jambura -yi our well fathoms five deep is Our well is ten yards deep.

6.2.5. We have to include many more, formally complex, derived adjectives among the classes recognised above. Syntactic-eally most derived adjectives also behave like the primary adjectives discussed above. Semantically and thereby syntactic-ally also, some of the derived adjectives may be explained as results of lexicalisation in the process of relativisation.

6.3. <u>DEICTICS IN SINHALESE</u>

6.3.1. As a sub section to this chapter on adjectives, I propose here a brief account of a few expressions usually referred to as deictic expressions. These expressions denote different degrees of proximity in relation to both the speaker or hearer or both. Employing + and - symbols and [1P],[2P] to represent speaker and hearer respectively, we may suggest the

following representation of deictics in Sinhalese:

e.g.

e.g.
$$\begin{cases} \frac{\text{oye}}{\text{pote}} \\ \frac{\text{onne}}{\text{con}} \end{cases}$$
 The book (is) that one near you.

e.g.

pote
$$\begin{cases} \frac{\text{are}}{\text{anne}} \\ \frac{\text{aan}}{\text{aan}} \end{cases}$$

The book (is) that one (ower there).

However, this deictic ee does not occur alone as the ones above in 6.3.2., 6.3.3. and 6.3.4. It always occurs with the 3P pronoun <u>eka</u> 'one' or <u>eewa</u> 'ones'. Thus we get:

e.g. pota <u>eeka</u>

The book (is) that one (=it)(in question).

Semantically or situationally it is impossible to show an object which is not within the vicinity of both the speaker and the hearer. Thus this anaphoric or co-referential deictic is more pronominal in function than the other deictics that we have recognised above.

6.3.6. In addition to these four deictics, we may recognise a further question deictic common to all four of these. When the idea is 'which' one or ones of these, or those near you, or over there or in question, it occurs with the 3P pronouns eka 'one' or eewa 'ones'. It is used to express'where' as well. I suggest the following formulation where | +/- pro besides | +/- pro besides

e.g.

pota $\frac{\text{mons}}{\text{koy}}$ eka-da

the book which one?

Which (is)(the) book?

e.g.

$$\begin{array}{c}
 \left(\frac{\text{kohe}}{\text{koy}}\right) \\
 \left(\frac{\text{koo}}{\text{koo}}\right)
\end{array}$$

the book where?

Where is the book.

6.3.7. I conclude this chapter on adjectives in Sinhalese by repeating the fact that from these predicative adjectives and deictics, adnominal adjectives and deictics (or demonstrative adjectives) can be derived through the process of relativisation. Thus most 'endocentric constructions' must be assumed to have resulted from some underlying structures which have been subject to the process of relativisation, nominalisation or some other.

CHAPTER 7

- 7.0. CAUSATIVE VERBS
- 7.0.1. What are generally called 'Causative verbs' in Sinha-lese, have, in fact, resulted from the application of a very
 complex process called 'causativisation' to a number of
 underlying structures. For each causative sentence, one always
 has to recognise more than one underlying sentence, possibly
 two, three or even more. Causativisation, therefore, may find
 its legitimate treatment in a grammar of Sinhalese coordination
 and subordination.
- 7.0.2. Syntactically all sentences with 'causative verbs' are complex sentences and are never simple sentences. There are verbs which are semantically causative and these action verbs may be described differently as derived from the related process verbs which denote most natural situations or events. Although there is reason to suggest that many action verbs denote caused processes in the semantic structure, nevertheless we are at present unable to explain how all action verbs are related to process or similar verbs. The hypothesis that from process verbs action (or causative) verbs can be derived by causativisation is ,however, semantically valid.
- 7.0.3. There are languages, especially most Indic languages, where causativisation can be applied to action verbs, which may (or may not) have been derived from process verbs nby a previous causativisation, and for them, we have to recognide two stages of causativisation. We may use First causativisation

to explain action verbs derived from process or stative verbs, and Second causativisation to explain those 'causative'verbs derived from action verbs, already derived from other verbs.

7.0.4. When First causativisation is applicable, I believe that the underlying structure must have at least two sentences — an agent doing something + a patient subject to a process or state etc., or an agent acting (i.e. intransitive verb).

By causativisation (? subordination) we get 'agent causes a patient subject to a process, state or to act eta'. The verb

CAUSE is a cumulative verb representing the agent's act (which may be clear from the situation but not necessary to be express—ed specifically). Thus the agent cause + patient process — agent patient act. Consider:

agent causes + patient dies - agent kills a patient.

In Sinhalese we get:

miniha mærenəwa

The man dies.

seenə causes + miniha mærenəwa seenə miniha marənəwa

Sena kills the man

seenə miniha mærennə salassənəwa Sena causes the man to die.

Thus we have two possibilities -- the agent directly and actively causing the man to die or the agent indirectly preparing the circumstances of the man's death. However, when direct confrontation of the agent is expressed, the verb is said to be an action verb as discussed earlier (v.5.1.). When the verb salasse 'prepare' is used the two sentences are recognisable:

the sentence denoting the process embedded in the sentence denoting caused action, (a matter of subordination).

7.0.5. When the sentences contain action verbs derived from other verbs they may undergo Second causativisation. In such cases the causative sentence consists of at least three under--lying sentences in the deep structure. Agent causing a patient (to act) + the command or request etc. + (the patient now as) agent acting / or causing a process etc.. Compare the following sentence with its proposed deep structure:

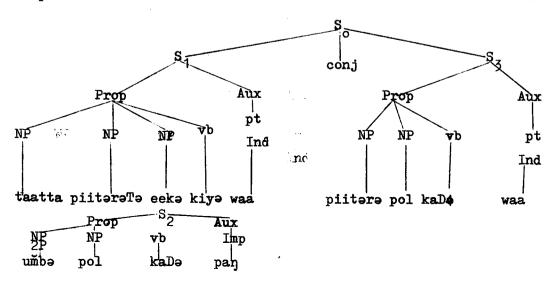
taatta piitereTe kiyela pol kæDewwa father Pitara having told coconuts picked (My) father having told Pitara got him to pick coconuts.

This sentence consists of the following sentences:

piitara pol kæDuwa

Pitara coconuts picked / Pitara picked coconuts.

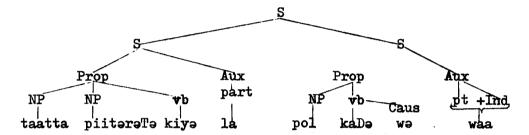
Although I do not go into details, I propose the following deep structure for the above sentence.



By causativisation:

- 1 Imperative S₂ deletion erasing the NP dominating it.
- 2 Aux. of S₁ deletion and introduction of the participle for coordination.
- 3 Equi NP deletion : NP of 5₃.
- 4 Causativiser we introduction after the verb of S_3 .

The result would be:



taatta piitereTe kiyela pol kæDewwa.
(MY) father having told Pitara got him to pick coconuts.

- 7.0.6. There are verbs which denote activities and are not related to process, stative or other verbs. Most action verbs (v.5.1.) which are intransitive are pure action verbs. When such verbs occur in causative sentences (with the causativiser we), the causative sentences are the result of causativisation applied to two or three underlying sentences which have been embedded or conjoined. Compare the sentence:
 - i balla <u>burə</u>nəwa The dog barks.
 - ii lameya balla <u>burəwə</u>nəwa the child the dog bark causes The child causes the dog bark.

The causative sentence ii consists of two underlying structures namely, (a) lameya 'causes' (= does something to the dog)

(b) balla burenewa 'The dog barks.'

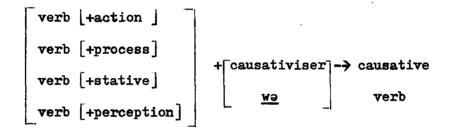
By deleting verb 'causes' and introducing 'causativiser' we to the verb of the second conjunct, the two sentences are combined to form the causative complex sentence.

- 7.0.7. All this suggests that causativisation is a complex process involved in complex sentence formation -- subordinat-ion and coordination. Furthermore, a purely formal descript-ion of so called 'causative verba' can not explain any of these syntactic and semantic facts and the complexity involved in the deep structure of those sentences where they occur. Thus, I believe, any attempt to explain 'causative verbs' in Sinha-lese (or in most Indic languages) should start from syntax and semantics. Although I am unable to go into detail and suggest the stages of eausativisation systematically, nonetheless, I state that all causative sentences are complex sentence-es and that causativisation is a process involved in complex sentence formation -- subordination or coordination (or both).
- 7.0.8. Assuming that, in the process of causativisation the causativiser we is added to the verb of the last conjunct, I propose the derivation of such 'causative verbs' from the different classes of verbs discussed earlier (see Ch. 5).
- 7.0.9. Before deriving causative verbs by adding the causat-iviser we to other verbs, it has to be stated that, when the causative verb salasse 'cause' is used, the other conjunct sentences are embedded in that 'causative proposition' as an expansiom of the patient argument.

7.0.10. The causativiser in Sinhalese is we:

where ver causativiser we can not be introduced the causative verb salasse occurs in the matrix sentence of the causative sentence. Having said that, let us look at some examples of causativised verbs derived from the (simple or) primary verbs in the following sections.

7.0.11. Theoretically most vembs -- action, process, stative and perception -- can be causativised by the we causativiser, but there are limitations. Thus:



However with regard to some involitive action and non-action verbs we causativiser is sensitive or less productive and in such cases the causative verb salasse 'cause' is selected instead. Consider the following examples:

galə 'flow' : *galə+wə but gala-nnə salassə 'cause to flow'

wæDe 'grow' : *wæDe+wə but wæDe-nnə salassə 'cause to grow'

e,g,

mame wature paare watte mædin <u>galanne sælæssuwa</u>
I stream of water estate through to flow caused
I made the stream of water flow down through the estate.

but never * mame wature paare watte mædin gælewwa.

7.1. CAUSATIVE VERBS FROM ACTION VERBS

7.1.1. We have already seen that action verbs can belong to one of four classes as [+vol,+Tr]; [+vol,-Tr]; [-vol,+Tr] and [-vol, -Tr] (v.5.1.). The causativiser we can be added to form causative verbs only to [+vol, +Tr] and [+vol,-Tr] verbs, and the causative verb salasse should be used with regard to involitive action verbs. Thus we get:

 $naTe + we \implies naTewe$ 'cause (someone) to dance' but.

ælle-nne salasse 'cause someone to touch unintentionally'
æNDe-nne salasse ' " " come to tears '

7.1.2. Action verbs as primary verbs are either monosyllabic or di- or polysyllabic in structure. They are either vowel final or consonant final, All non-monosyllabic structures end in one of three vowels, namely $\underline{\bullet}$, \underline{i} or $\underline{\bullet}$. (Since these final vowels undergo changes such as deletion etc. before other structures (morphemes), they are considered less important and are refered to here as 'conjugation vowels' where ever the term sylla? -ble vowel is used, the reference is to vowels of those sylla--bles other than the final syllable with the conjugation vowels $\underline{\bullet}$, \underline{i} or $\underline{\bullet}$).

¹ $-\underline{\text{ave}} \Rightarrow [\text{ oo }] \text{ phonologically . see 11.3.10. rule 16 (d).}$

^{2 -}pəw- ⇒ pw ⇒ pp phonologically. see 7.1.3.and 11.2.11.
rule 6 (b)i.

7.1.3. When a di- or polysyllabic verb is causativised by we the result may be stated as:

$$\begin{array}{c|c} ..C_{3} \\ ..C_{1} \\ ..C_{2} \\ ..C_{2}$$

And,
$$\begin{bmatrix} ...C_{1} \ni \\ ...C_{2} i \end{bmatrix} + wa \Rightarrow \begin{bmatrix} ...Cwa \Rightarrow CCa \\ ...Cawa \end{bmatrix}$$

e.g.

And.

kərə + wə ⇒ kərəwə 'cause ... to do '
adi + wə ⇒ adwə ⇒ addə 'cause ... to pull'
wæTe + wə ⇒ waTwə ⇒ waTTə 'cause ... to fall'

kape + we ⇒ kappe (or kapoo) 'cause ..to cut'
ari + we ⇒ arewe 'cause ..to open'

7.1.4. When a monosyllabic verb is causativised by \underline{w} they are simply joined together, however the verb final $\underline{C} + \underline{w}$ of \underline{w} assimilate (progressive). This may be staed as:

$$\begin{bmatrix} (C)V \\ CVC \end{bmatrix} + wa \Rightarrow \begin{bmatrix} (C)V & w \\ CVCwa \Rightarrow CVCCa \end{bmatrix}$$

e.g.

ka. + wə ⇒ kawə 'feed, cause ...to eat'

naa + wə ⇒ naawə 'cause ...to bathe'

gan + wə ⇒ gannə 'cause/tö take '

7.1.5. As stated in 7.1.3., there are special cases where the general pattern is not observed. There are a few ... Co verbs following the pattern similar to ... Ci verbs, if the .C before final $\underline{\bullet}$ is \underline{h} , \underline{s} , \underline{p} or \underline{m} . (That is, final $\underline{\bullet}$ deletion and then the $\underline{C} + \underline{w}$ of \underline{w} assimilation (progressive)). Some verbs that

belong to this exceptional class are the following:

```
aha 'ask'
              causative vb = assa '
                                        cause .. to ask '
                          11
                                                   to cut '
kapa 'cut'
                                kappa '
                          Ħ
                                                 to scratch'
kaha 'scratch'
                                kassə '
gaha 'beat, hit'
                                                 to beat...'
                                gassə '
dapa 'lie on one's back' "
                                dappa '
                                              to lie on one's
                                                  back '
                                              to put
dama 'put'
                                damma '
                                namma '
                                               to bend'
name 'bend'
                                          " to close '
waha 'close'
                                wassa *
                                massə 1
maha 'sew'
                                               to sew '
                                              to bite '
hapa 'bite'
                          11
                                happa '
paaha 'weld'
                          Ħ
                                paassa '
                                                to weld'
 etc.
```

7.1.6. There are a few ... Ci verbs which behave differently.

i is deleted before we, and the preceding C which is mostly a retroflex does not bring about assimilation of w to the retro-flex. The cluster is unusual for the language to accept, so an epenthetic e splits the cluster to produce ... Cowe structure.

The following are some verbs of this class.

```
ari 'open' caus. vb = arawa 'cause...to open' hiTi 'stay' " hiTawa ' " to stay ' keli 'play' " kelawa ' " to play'
```

7.1A. <u>DOUBLE</u> <u>CAUSATIVES</u>

7.1A.1. When the causativiser we has assimilated with the final consonants (resulted from conjugation vowel deletion) of verbs, as discussed in 7.1.3.and 7.1.5., the resulting

^{1 &}lt;u>waDi</u> 'go' is a special respect verb; the causative form is weDemewe or waDamme 'cause (the priests..etc.) to go or come'.

structure ... CCə is similar to that of the non-causative verbs like dakkə 'drive' allə 'touch, catch,...' with ... CVCCə struct-ure. Since these primary verbs can take we causativiser, to form the corresponding causative verbs, those already causative verbs but disguised due to assimilation, are capable of adding we causativiser again to result in a formally causative verb. Whether these verbs are formally double causatives or not, they are only syntactically and semantically causative. A few examples of double causative verbs are given below:

$$adi + wa \Rightarrow adda (v.7.1.3.)$$

adda + wa => addawa 'cause ..to pull'

Except for the verbs discussed in 7.1.6., most other ... Ci verbs are capable of forming double causatives. Verbs discussed in 7.1.5. are also capable of taking we causativiser for a second time.

 $aha + wə \Rightarrow assa (v 7.1.5.)$

assa + wa => assawa 'cause ..to ask ';

dame + we \Rightarrow damme (v.7.1.5.)

damme +we -> dammewe 'cause..to put'

It may be mentioned, further, that when the verb ends/..wo whether it be causative or primary, no further causativisers can be added to it.

7.2. CAUSATIVE VERBS FROM PROCESS VERBS

7.2.1. Causative verbs can also be derived from process verbs. Such causative verbs refer to actions where an agent causes a process to happen. Generally all causative verbs are

action verbs. They express an agent causing something plus an action, process, perception or state. When a process verb undergoes First causativisation (with the addition of we) the resulting causative verb is similar to an action verb -- as the causing agent acts himself. In Sinhalese, as well as in many Indic languages, the so-called causative verbs are supposed to express a proposition where an agent causes another agent to act or cause a process to take place or cause someone to feel a sensation or cause some condition to prevail. Thus actual causative verbs are related to two agents and cause processes with one agent are considered similar to action verbs. Thus:

verb [+process] + causativiser [wə]⇒ First causative

(or = action verb)

verb [+process]+ caus.[we] + caus[we] ⇒ Second caus. e.g.

- 7.2.2. However, if the causative verb <u>salasse</u> is used with-out <u>causativising</u> the verb of the adjunct sentence, the latter
 is usually embedded into the causative proposition with predicate
 <u>salasse</u>.
- 7.2.3. With regard to complex verbs, the dependent verbs decide whether they denote processes, actions, or causatives etc.
- e.g. hond-we 'heal' (-we marks [+process])

honda-kara 'cause to heal, cure' (kara= [+action])

honda-kara+wa 'cause someone to heal/cure'(karawa = [+caus]).

7.2.4. It may be mentioned that whenever the causative verb salasse is used in a causative complex sentence, without causat-ivising the verb of the conjunct semtence, some idea of indirect action is implied. Verbs like gale 'fhow' and hame 'blow' can not be causativised by we and in such cases salasse must be used in the caused action proposition.

gange galanne salassenewa
the river to flow cause
(They) cause the river to flow down.

7.3. CAUSATIVE VERBS FROM PERCEPTION VERBS

7.3.1. Causative verbs can also be derived from verbs of perception. Such causative verbs express an agent causing a patient to experience something — a sensation, object etc.

Thus propositions of causing action + experience produce action like causative verbs if we causativiser is introduced. Usually by Second causativisation causative verbs expressing 'someone causes someone else to experience ..' are derived. Here too there are some verbs like https://doi.org/10.1001/j.com/here 'are derived. Here too there are some verbs like https://doi.org/10.1001/j.com/here 'consider the follow-ing examples:

e.g.

pene +wə ⇒ penwə ⇒ pennə (v.7.1.3.)'show'
pennə +wə ⇒ pennəwə 'cause someone to show'
but,

hite +wə => *hitwə => *hittə (impossible)

7.3.2. Propositions with perception verbs can be embedded in propositions with causative action verb salasse and it is more common to do so.

7.4. CAUSATIVE VERBS FROM STATIVE VERBS

- 7.4.1. The most common stative verbs are <u>indi</u> 'be' and <u>tibe</u>

 'be'. By adding <u>we</u> to <u>indi</u> causative verb <u>ind-we</u> = <u>inde</u>

 'cause a being to be'(by First causativisation) and further

 by adding <u>we</u>, (by Second causativisation) verb <u>inde</u> + we =

 <u>indewe</u> 'cause someone to cause a being to be' can be derived.
- 7.4.2. With regard to tibe, we is less likely to occur and such propositions are usually embedded in propositions with salasse. With regard to other stative verbs as dan 'know', mateke-tibe' remember' etc. the causativisation is a matter of embedding as discussed with verb tibe above.
- 7.4.3. The copula verb, the possessive verb and modal stative predicates do not have causative verbs, as they are not deep structure verbs.
- 7.4.4. The foregoing account should be sufficient to suggest that causative sentences are complex sentences consisting of two, three or four underlying sentences in them. Causativisat—ion is a matter related to complex sentence formation—subordination and co-ordination—and has, therefore, to be studied in detail in relation to the same. Thus any superficial attempt to describe 'causative verbs' by deriving them from formally 'primary'verbs may contribute very little towards an understanding of the complexity of causativisation.

CHAPTER 8

8.6. THE AUXILIARY OF A SENTENCE

- 8.0.1. The auxiliary as constituent common to the whole sentence can be described syntactically and semantically independently of predicates. In Sinhalese, as in most other languages, the auxiliary, however, occurs attached to predicates phonologically. Furthermore when there is a choice of alternative forms in the realisation of the auxiliary, the choice is made according to the form of the predicate, especially the verb. It is, therefore, reasonable to discuss the auxiliary component of a sentence in this section on predicates.
- 8.0.2. In this chapter on the Auxiliary of a sentence, I propose to discuss the grammatical categories of tense, aspect and mood, and their corresponding phonological manifestation(s). Every sentence must be associated with these categories in different degrees, so that it can convey the attitudes of the speaker as well as time relations in relation to the time of utterance, besides its proposition(s).
- 8.0.3. In Sinhalese these categories are realised by different exponents. Sometimes one finds it difficult to correlate each of these categories with a different realisation as there is a tendency for more than one category to be realised by one exponent (-- as portmanteau morphemes). First, let us introduce these categories as relevant to Sinhalese. Auxiliary as a whole can be stated as:

Auxiliary ---> (tense + aspect)+ mood

8.1. TENSE

- 8.1.1. The category of tense denotes time relations associated with the utterance to the speech situation. In other words, the essential characteristic of this category is that it relates the time of the action, process etc. referred to in the proposition to the time of utterance. To describe time relations associated with the auxiliary of a sentence in Sinhalese, I recognise two tenses as:
- (a) past tense -- referring to events that took place in the past in relation to the time of utterance, and
- (b) non-past tense -- referring to events, at present and in time to come, and also in referring to eternal and timeless events etc.

Thus tense in Sinhalese is

- 8.1.2. However, in relation to certain moods, the category of aspect must be considered simultaneously with tense.
- 8.2. ASPECT
- 8.2.1. The category of aspect refers to different degrees of time relations. On the one hand it is related to the category of tense and on the other it may be related to the category of mood -- especially to the 'indicative mood', as these time relations are relevant mostly for declarative sentences only.

 I, therefore, propose to treat the category of aspect as related to both the categories of tense and 'indicative mood'.
- 8.2.2. In this study, I recognise, two aspects for non-past

tense and three aspects for past tense, both in relation to the 'indicative mood'.

- 8.2.3. The two aspects of non-past tense are:
- (a) the generic aspect denoting eternal, timeless and habit--ual events as well as actions, processes etc. of the present time in general. (Even the progressive aspect (v.(b). in.) in Sinhalese is mostly expressed by this generic aspect), and
- (b) the progressive aspect denoting contemporaneous and continuous actions, processes etc.

Thus aspect in Sinhalese in relation to non-past tense and indicative mood is:

- 8.2.4. Similarly the three aspects of the past tense are:
- (a) the completive aspect referring to completed actions, processes etc..
- (b) the progressive aspect referring to actions, processes rtc.

 lasted continuously some time in the past, and
- (c) the perfective aspect to refer to states resulted through actions, processes etc. in the past.

Thus aspect in Sinhalese in relation to past tense and indicat-ive mood is:

8.2.5. Furthermore, the completive aspect may be subcategorised as general and emphatic. That is:

8.2.6. Thus we may formulate the category of aspect in Sinhalese as:

Next let us discuss the category of mood.

8.3. <u>MOOD</u>

- 8.3.1. Mood is a category denoting the attitude of the speaker towards what he says. When a speaker produces statements of facts, simple declarative sentences, the category of mood associated is said to be the 'indicative mood'. This modality is realised independently of the fused realisation of the categories of tense and aspect, in the language.
- 8.3.2. Although interrogative sentences can be considered as constituting a separate mood, the interrogative mood (see Lyons, J. 1968, pp. 307 308), I do not propose to recognise such a mood for Sinhalese for the reason that most interrogat
 ive sentences can be derived transformationally (see Appendix B. 1.).

- 8.3.3. To describe the auxiliary component of a sentence in Sinhalese, I propose to recognise a number of moods besides the indicative mood already referred to (v.8.3.1.).
- 8.3.4. There are sentences called imperative sentences.

 They express commands, requests, instructions etc. Such sentences are said to be in the imperative mood. This mood will be examined in some detail later (v. 8.4.1. 8.4.8.).
- 8.3.5. There are sentences expressing wishes both benevolent and malevolent. I propose to recognise a mood called 'benedic-tive mood' to refer to such sentences.
- 8.3.6. There are sentences expressing probability and they are included under a mood called the 'inferential mood'.
- 8.3.7. Then, there are sentences expressing possibility, certainty and obligation etc. These will be treated individual—
 -ly as these modalities are usually realised as discreet modal auxiliaries together with the infinitive auxiliary.
- 8.3.8. According to the foregoing account, the category of mood can be represented as:

+ indicative
+ imperative
+ benedictive
+ inferential
+ possibility
+ certainty
+ obligation

8.4. THE IMPERATIVE MOOD

- 8.4.1. As stated earlier (8.3.4.) the imperative mood has to be discussed in some detail. Imperative sentences in any language usually occur in face-to-face situations. Such sentences are used to urge, command, request or instruct the hearer (=2P) to act in the required manner. Although imperative sentences look like simple sentences in surface structures, they are, in fact, complex sentences having two or more under-lying sentences. Depending upon the number of persons involved in the face-to-face situation, I propose to distinguish three sub classes of imperative mood.
- 8.4.2. Firstly, in a speaker hearer situation, the speaker commands or requests the hearer to act accordingly. This direct speaker hearer confrontation is called simple imperative. In all such situations, the subject of the proposition of the imperative sentence is the hearer (i.e. 2P).
- 8.4.3. As the agent NP of the proposition of the imperative sentence is realised by one of the 2P pronominal expressions, we have to anticipate some sort of concordial relationship between the different grades to which the 2P pronoun is class—ified (v.2.2.) and the imperative auxiliary realisations. Thus we have to recognise a number of grades for simple imperative at least corresponding to the grades of the 2P pronoun. Hence I propose to recognise the following grades for simple imperative modal auxiliary:
 - (a) respect grade
 - (b) ordinary grade and
 - (c) derogatory grade.

the Thus/simple imperative mood can be stated as:

8.4.4. Now let us examine the two other aspects of the imperative mood. According to traditional grammars, there is a mood called 'hortative'. The sentences, where this 'hortative' modality occurs, refer to situations where the speaker requests or proposes the hearer either to permit the speaker himself to act (i.e. exclusive of the hearer) or to join him to act jointly (i.e. inclusive of the hearer). I use 'hortative imperative' to refer to this type of complex exhortations to include both exclusive as well as inclusive reference to the hearer. Exclusiveness or inclusiveness of the hearer may be stated as suggested below:

8.4.5. Finally, the third aspect of the imperative mood, namely the 'permissive mood' as called by the traditional grammarians, refers to a situation where the speaker commands, requests or proposes the hearer to permit or allow a third person (i.e. neither the speaker nor the hearer) to act etc. The third person subject in this situation may be an agent, patient or an experiencer depending upon the verb. Categories of tense and aspect play no role in relation to imperative as well as most other moods except for the indicative mood.

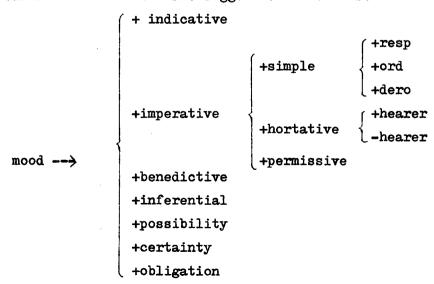
(However, if we want to include time relations, tense and

aspect, we may say that all these modalities are non-past and generic).

8.4.6. It may be repeated, that if we examine the deep structure of these different imperative sentences properly, we are bound to realise that all imperative sentences are complex sentences. Just as causative sentences are complex sentences (see Ch. 7), all simple, hortative and permissive imperative sentences are also complex sentences, although most of the complexities are hidden or disguised in the auxil--iary expressions attached to the verb forms.

8.4.8. Thus we may represent the imperative mood in full as:

8.4.9. To recapitulate all aspects of the category of mood, one can summarise the rules suggested above thus:



8.4.10. Leaving some more facts to be introduced later in this chapter, I propose at this stage, to introduce the different phonological realisations of the categories discussed above. This will be done taking into account the different possible combinations of the categories and features that constitute the auxiliary of a sentence. Let us begin with the indicative mood, and then take account of the categories of tense and aspect simultaneously.

8.5. REALISATIONS OF THE AUXILIARY

- 8.5.1. As stated earlier, the auxiliary realisations are added to predicates -- especially verbs. The choice of alternat-ive realisations is decided by the phonological form of the verb. I therefore propose to suggest some context sensitive rules to account for the choice of alternative realisations where relevant.
- 8.5.2. The realisation of the indicative mood may be stated to include two forms, one used in ordinary (non-emphatic etc.) statements and the other in emphatic and/or negated statements, as:

e.g.

amma watteTe giyaa
mother to the estate went
(My) mother went to the estate.

watteTe giyee amma
to the estate went mother
It was my mother who went to the estate.

amma watteTe giyee nææ

mother to the estate went not

(My) mother did not go to the estate.

8.5.3. If the tense category is [+non-past], it may be either [+generic] or [+progressive] as regarding aspect. Thus we get two possible combinations as [+non-past and +generic] and [+non-past and +progressive]. The phonological manifesta-tions of these two are suggested in the following formulations.

e.g.

seene potak kiyewe<u>ne</u>wa (ne + aa> newa) Sena a book read Sena reads a book.

minissu maalu allenewa The men fish catch The men catch fish.

e.g.

miniha pol biňda biňda innawa the man coconuts breaking is The man is breaking coconuts.

ruuna <u>kæraki kæraki tiyena</u>wa the fan rotating is The fan is rotating. kandə <u>naayə-yamin tiyenə</u>wa the mountain sliding is The mountain is sliding.

basseke nagereTe emin tiyencwa the bus to the city coming is The bus is coming to the city.

However, the use of this progressive aspect especially with the non-past tense indicative is less productive in comparison to its use with the past indicative, where in most cases generic and progressive aspects are indistinguishable when newa (= no + aa) form is used (v.8.2.3(a)). The stative verbs indi ([in]) and tibe ([tive]) do not combine with continuous aspect auxiliary expressions, because they actually refer to continuous states either in the past or present. This may be the reason for them to be used in forming continuous aspect expressions in relation to verbs which are non-stative?

8.5.6. If the tense is [+pt] there are a number of possible combinations of tense and aspect. These are formulated in the following sections.

e.g.

miniha gaha kapuwa (< we + aa > wa)
the man the tree cut
The man cut the tree

¹ For a theoretical discussion see Chafe, W.L. 1970, p.99.

lameya dora æri<u>ya</u> (ya + aa > ya) the child the door opened The child opened the door.

pote meese uDe tibuna (ne₂ + aa > na) the book the table on was

The book was there on the table.

(This is less productive than the general completive past tense (8.5.7.)usage; indicative mood does not realise in its aa form here; modality may be inherent in pi and cci/cco.) e.g.

kolla duwapi
The boy did run.

malə pipi<u>cci</u>
The flower did open.

e.g.

mamə mokaddə kərə kərə unna

- I something doing was
- I was doing something .

^{1 &}lt;u>pi</u> has two forms in complementary distribution: as <u>pi</u> in sentence final position and <u>pu</u> as aux. without modality: as in relative phrases, and before <u>den</u>, <u>aawe</u> etc. v.8.6.10.).

oruloosuwa hondaTa waDa kara kara tibuna the watch well working was The watch was working well.

koocciyə mehaaTə <u>emin tibuna</u>
the train to this direction coming was
The train was coming towards this direction.

The notion of recent past is expressed by the use of tiyens (i.e. tibe + npt.generic [ns]) and distant past by the use of tibuns (i.e. tibe + pt. completive [ns]) respectively.

e.g.

lameya malə <u>kaDəla tiyenə</u>wa the child the flower has picked The child has picked the flower.

lameya malə <u>kaDəla tibun</u>a the child the flower had picked The child had picked the flower.

8.5.11. In the above sections (8.5.2. - 8.5.10.) we have formulated the realisation of the auxiliary of simple sentences in Sinhalese. It is in relation to these indicative or declarative sentences that the categories of tense and aspect play a role. In the next section let us attempt to formulate the different realisations of the three classes of the imperative mood.

8.6. REALISATION OF THE IMPERATIVE MOOD

8.6.1. As stated earlier, (8.4.2.,8.4.3.) we have to

recognise three grades in relation to simple imperative modal--ity. Realisations, therefore, have to be established accord--ing to these grades.

8.6.2.
$$\begin{bmatrix} simple Imp \\ +respect \end{bmatrix} \xrightarrow{--} \begin{cases} nDe \\ nne \\ nTe \end{bmatrix}$$

e.g.
$$yanD_{\frac{1}{2}}$$
 obstumaa $yann_{\frac{1}{2}}$ (Will)you (please) go.

mahatteya heTə $\begin{cases} enD_{\overline{\partial}} \\ enn_{\overline{\partial}} \end{cases}$ Sir (will) you (plese) come tomorrow.

e.g.

tamuse poleTe yanewa
you to the fair go
You 5d better go to the fair.

¹ nTe form is found in the dialects of Kandyan up country.

² paleyan'go' is another Imp. expression similar to yaman'will
you go'

³ e 'come' has a special Imp. expression waren 'come(will you) just as <u>ya'go'</u> has <u>paleyan</u> (w. fn.2 sup.).

e.g.

umba eeka karapan you it do You 'd better do it.

umbbe uge ængee elliyan you his body cling on You 'd better cling on to him.

umbe gedere { yaman paleyan you home go You 'd better go home.

umbe pote ganin
you the book take
You 'd better take the book.

umbb heTa udee waren
you tomorrow morning come
Yuo 'd better come tomorrow morning.

8.6.4. To express politeness and intimacy, the so-called 'polite particle' ko may be used after any of the imperative realisations, simple, hortative or permissive. Compare the following sentences:

tamuse yanawa-ko Will you pease go.

umbə yaman-ko Will yuo please go.

miniha { aaden-ko aawaawe-ko Let the man come.

api yamu-<u>ko</u> Let us go.

e.g.

too kapapiya

you cut

Cut (it..)

too ædəpiyə

you pull

Pull (it..)

too ooka ædu

you the thing near you pull

Pull that one (near you).

too wæTiyə

(You) fall.

too kada Ø

(You) pick.

too { yamo pale

(You) go.

mehaaTo waro

Come here .

¹ ya, besides its yame Imp. form, has a special Imp. form pale 'go will yuo' as well.

² e has a special Imp. with +dero as ware 'come will you'.

8.6.6. All 'causative verbs' can be followed by an imperat-ive modal auxiliary. However, we shall find such imperative
causative sentences are even more complex than the causatives
discussed in chapter 7, when we attempt to explain them by
applying causativisation to the underlying deep structure
sentences. I do not propose to discuss the syntax and semantics
of such complex sentences in this study. But the realisation
of imperative after 'causative verbs' is similar to those forms
after ..(C)VCo verbs as all causative verbs are ...Co verbs in
structure.

e.g. $kapp \Rightarrow + \begin{bmatrix} nD \Rightarrow \\ nn \Rightarrow \end{bmatrix} \xrightarrow{kappanD \Rightarrow} \end{bmatrix} \text{ 'may you please cause someone to cut'}$ $kapp \Rightarrow + \begin{bmatrix} nD \Rightarrow \\ nn \Rightarrow \end{bmatrix} \xrightarrow{kappann \Rightarrow} \end{bmatrix} \text{ 'may you please cause someone to cut'}$ $kapp \Rightarrow + \begin{bmatrix} nD \Rightarrow \\ nn \Rightarrow \end{bmatrix} \xrightarrow{kappann \Rightarrow} \end{bmatrix} \text{ 'may you please cause someone to cut'}$ $\cdot \text{ (This is when the grade is +resp).}$

kappə + nəwa > kappənəwa 'please cause someone to cut'
kappəwə+ nəwa > kappəwənəwa " " "
kappə+paŋ > kappəpaŋ " " "
kappəwə+ paŋ > kappəwəpaŋ " " "

(This is when the grade is +ord).

kappə+piyə kappəpiyə 'get someone to cut 'kappəwə+piyə kappəwəpiyə " "

(This is when the grade is +dero).

8.6.7. Next let us introduce the phonological manifestation of the hortative imperative modal auxiliary.

e.g.

mama yannan

I let go /shall go Let me go /(I shall go).

mame kaareke geennan

I the car let bring

Let me bring the car /(I 'll bring the car).

api eekə kəra<u>nna</u>ŋ

we it let do

Let us (exclusive of the hearer) do it/(We 'll do it).

I assume that 'let me ' and 'I 'll' as well as 'let us' and ' we 'll ' express similar notions. This has been discussed in some detail in a paper 'Let's solve let's ' by R.M.Costa (see Bib.).

e.g.

api wæDe kere<u>mu</u>
we work let do
Let us work.

we let dance
Let us dance .

8.6.10. Finally to conclude this section on imperative realisations, let us take the permissive imperative modal auxiliary. Semantically this modality expresses some non-past tense relationship although the realisation is more formally complex where both npt. (generic) and pt.(completive) realisations plus two other expressions --den and -aawe are realised

together under permissive imperative modality. Thus the realisation of the permissive imperative mood may be represented as:

permissive mood
$$\longrightarrow$$

$$\begin{bmatrix}
 \text{nə}_{1} & (v.8.5.4.) & +[\text{den }] \\
 \text{nə}_{2} & (v.8.5.7.) & +[\text{den }] \\
 \text{wə} & \\
 \text{pu}^{1} & (v.8.5.8.) & \\
 \text{cci}
\end{bmatrix}$$

e.g.

eyaa eekə kəra<u>dde</u>ŋ (kərə+nə+deŋ \Rightarrow kərə+t +deŋ \Rightarrow ..ddeŋ) he it let do
Let him do it.

uu eekə keruwa<u>den</u>
keruw<u>aawe</u>
kərəpuwaawe

he it let do Let him do it.

perəlunə<u>den</u>

perəliccə<u>den</u>

perəlun<u>aawe</u>

perəlicc<u>aaw</u>e

the chair let fall Let the chair fall.

8.6.11. It seems to me that in the deep structure of these permissive sentences we may find sentences with both past or non-past, indicative mood auxiliary. In the complex sentence formation, this tense category remains. However, its semantic value has changed to a natural state to express some non-past notion. Nevertheless, in my own idioledt, I use sentences

¹ see fn. 1, p.167.

similar to the following in approving of or in forgiving some action, process etc. brought to my attention by somebody else.

To me:

My response:

lameya potə iruwa ohe irəpu $\{$ den $\}$ The child tore the book Let it be so .

kolla potak balenewa the boy a book reads The boy reads a book, baladden
balapuden
bæluwaawe
balapuwaawe
balapuwaawe
bæluwaden

Let him do so.

However, I can not use <u>iradden</u> instead of i<u>ruwaden</u> or <u>irapu</u>
<u>-den</u> in the first example where the reference is to an activity
in the past.

8.7. THE BENEDICTIVE MOOD

8.7.1. This is also neutral as to tense. However, it is associated with some non-past notion -- as in Sinhalese we can not wish for past events. Benedictive mood is realised mostly as yan(or as pan in relation to a few verbs), although there are a few idiomatic usages with weewaa 'let there be, may it be '. Thus the benedictive mood may be represented as:

e.g.

anee deyyanee ehema we<u>yan</u>

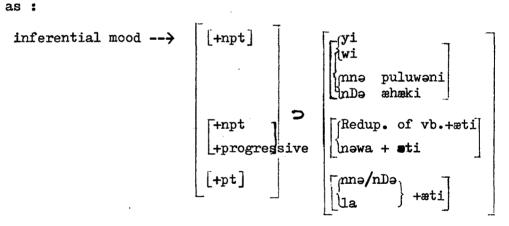
O God, may it be so !

mage putaa niwan dækəpan my son Nirvana see may you May (you) my son attain Nirvana.

Idiomatic usage: jayaweewaa 'wish victory, hail...'
bangaweewaa 'wish defeat'etc..

8.8. THE INFERENTIAL MOOD

8.8.1. The inferential mood is realised in a number of forms; either as two suffixes or as participles plus independent modal auxiliaries etc. (see stative modal predicates for their non-modal usage v.5.6.) The realisations <u>vi</u> and <u>wi</u> are non-past always. However <u>sti</u> after past participle may denote past inferential modality. Thus the inferential mood may be represent-ed as:



e.g.

lameya wæDee kərayi/kəraawi

the child the work may do

The child may do the work.

lameya wæDee kərannə puluwəni/ æhæki the child the work do may
The child may do the work.

lameya wæDee kərənəwa æti
the child the work do may
The child may be doing the work. or,

lameya wæDee kere kere æti the child the work doing may be The child may be doing the work.

lameya wæDee kerela æti
the child the work have done may
The child may/might have done the work.

lameya wæDee kərannə/kəranDə æti the child the work do may have The child may have done the work.

8.9. POSSIBILITY MOOD

8.9.1. The idea of 'can' or possibility is expressed in Sinhalese by this modal auxiliary which is realised as infinitive plus <u>puluweni</u> or <u>whaki</u>. This may be stated as:

possibility mood
$$\longrightarrow$$
 $\begin{Bmatrix} nn \ni \\ nD \ni \end{Bmatrix}$ + puluwəni/ æhæki

e.g.

tamuseTə dæn ya<u>nnə/yanDə puluwəni/æhæki</u>
you now go can
You may / can go now.

8.10. MODALITY OF CERTAINTY

8.10.1. The idea of 'must' is expressed by this modality. It is realised as infinitive + <u>oone</u>. We may represent this as:

modality of certainty
$$\longrightarrow \begin{cases} nn \\ nD \end{cases} + oonæ$$

e.g.

tamuse heTə ennə/ enDə oonæ
you tomorrow come must
You must come tomorrow.

8.11. MODALITY OF OBLIGATION

8.11.1. The idea that 'one is obliged to' etc. is expressed by this modality. This and the modality of certainty sometimes, seem like overlapping. It is realised in a number of ways as shown below:

modality of obligation --> { nne/nDe +oone nne/nDe +waTinewa nne/nDe +epaaye nne/nDe +wela +tiyenewa

e.g.

mamə eekəTə yannə/yanhə (mə) oonæ
I to that go should
I should go to that (meeting etc.).

miniha yannə/yanDə waTinəwa
the man go should
The man should go/ (It is his duty to go ?)

amma ispiritaaleTə yannə(mə) epaayæ mother to the hospital go has got to (My) mother has got to go to the hospital.

maTə eekə kəra<u>nnə wela tiyenəwa</u>
I it to do got have to
I have got to do it.

8.12. COPULA VERB AUXILIARY

8.12.1. It has been stated (v.5.5.) that the copula verb is not generally considered as similar to other verbs such as those denoting actions, processes etc. The copula is considered as a 'dummy' verb, usually marking the tense, aspect and modality -- the auxiliary of a sentence.

8.12.2. In most cases the copula occurs in sentences with propositions having attributive predicatives or with equation—al propositions. In Sinhalese the copula verb seems to be either non-past or has to be treated as neutral to tense. However, we can explain the copula realisation in Sinhalese to include both past and non-past tenses. Aspect may be generic or completive. Modality is indicative. Accordingly the copula auxiliary may be realised as shown below:

e.g.

mee pote honda-<u>yi</u> this book good is This book is good.

mee pote alut-Ø
this book new (is)
This book is new.

eyaa mage putaa- \emptyset he my son (is) He is my son.

tisaahaami dassa daDayakkaarayek-Ø Tisahami efficient a hunter (is) Tisahami is an efficient hunter.

e.g.

mamə guruwərəyek <u>wela unna</u>
I a teacher was
I was a teacher.

issərə mee gee kaDeyak (<u>wə tibuna</u>) in the past this house a shop(was) In the past, this house was a shop.

issərə mee ælə lokuwə<u>Tə tibuna</u>
in the past this canal large was
In the past this canal was large.

However, copula auxiliary in the past tense, given above is very uncommon. Even the given realisations are periphrastic usages. There are many other idiomatic periphrastic usages similar to these. But in most cases, we are likely to find a stative verb. Thus, I believe that the copula verb, although in its formal manifestation seems to be a dummy verb signall—ing mostly the contents of the auxiliary, related to some deep stative verb (v.5.5.).

8.12.4. So far I have attempted to formulate the realisations of the auxiliary usually attached to phonological verbs in simple sentences or to verbs in matrix sentences. There are some more realisations of the auxiliary (component) of a sent-ence to be discussed and introduced in relation to coordinate and subordinate sentences, where in some cases modality usually disappears when sentences are joined and embedded. I propose to introduce, in the next section, some auxiliary realisations that occur in relation to such sentences (non finite suffixes in traditional terminology).

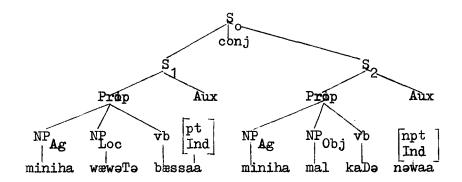
- 8.13. THE AUXILIARY OF CONJOINED SENTENCES
- 8.13.1. We may recognise three participles as infinitive, non-past or past progressive and past participles. All these occur in complex sentences or in complex verbs (which may have resulted from complex sentences; even the modal auxiliaries may have complex structures in a deeper level).
- 8.13.2. In Sinhalese, these participles occur in conjoined sentences. Coordination and subordination in Sinhalese require a lengthy discussion. I do not propose to do so here. My aim to is explain the three participles I have recognised. Thus, this covers only that area of coordination where participles function as coordinate conjunctions.
- 8.13.3. When two sentences are joined by the participle auxiliary, first, the auxiliary (marked for tense, aspect and indicative mood) of one of the underlying sentences is deleted, and then one of the three participles is introduced to fill the gap created by the auxiliary deletion. The result is a conjoined sentence. The three participles will be introduced in the following sections.
- 8.13.4. We can join two simple sentences by introducing the infinitive auxiliary in place of the deleted auxiliary of the sentence if the deleted auxiliary of the sentence id marked for non-past tense generic aspect and indicative mood and if the activity or process stc. denoted by the same sentence refers to a resulting or later event in relation to the activity or process etc. denoted by the other sentence.

The infinitive is realised as:

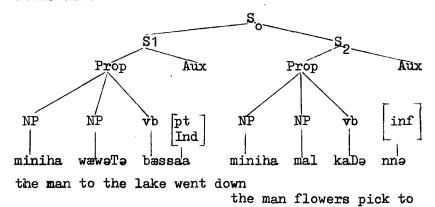
e.g.

miniha mal kaDanne/kaDanDe wæweTe bæssa the man faowers to pick to the lake went down The man went down to the lake to pick flowers.

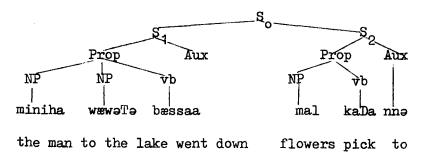
The deep structure of the sentence may be as suggested below:



Then the Aux. of the S₂is deleted and the infinitive is introduced in the process of coordination resulting the following structure:



By equi NP deletion we get:



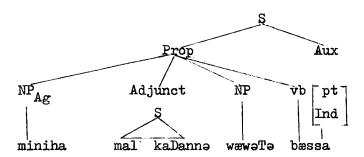
¹ v. fn. 1, p.169.

Then finally S_2 is now shifted to the right of the subject Agent NP of the S_1 . The result is the sentence given at the beginning of this section. However, it may be mentioned that S_2 can be shifted not only to the right of the Agent NP of S_1 but also to the left of it as well as to the right of the Locative NP of S_1 . Thus the following sentences are also possible and acceptable:

miniha wwweTe mal kaDanne bæssa the man to the lake flowers to pick went down The man went down to the lake to pick flowers.

mal kaDanne miniha wæweTe bæssa flowers to pick the man to the lake went down The man went down to the lake to pick flowers.

The surface structure of our sentence given at the beginning may be represented as:



the man flowers to pick to the lake went down

8.13.5. When we have two sentences where the auxiliary of one is non-past or past progressive, that auxiliary is replaced by the non-past or past progressive participle to join the sentences. The realisation of the progressive participle is:

e.g.

miniha phduru kapa kapa walakaTa damanawa the man bushes cutting to a pit puts

The man cuts the bushes and puts them into a pit.

lameya <u>yamin yamin</u> raTekaju kanewa the child going peanuts eat The child eats peanuts while going.

8.13.6. When sentences with npt. generic (v.8.2.3) or pt. general (v.8.2.4.,8.2.5.) indicative auxiliaries and identical subject NPs are joined, the auxiliary of the first conjunct sentence is replaced by the past participle auxiliary. If the second sentence, then the third etc. refers to the result of the event denoted by the first sentence (or the previous one), then the subject NPs need not be identical. It must be remembered, however, that past participle auxiliary is introduced to take the place of the auxiliary associated with the verb denoting the former event whereas the infinitive is introduced to take the place of the auxiliary of the sentence expressing the latter (resulting) event. The past participle auxiliary is realised as:

However, the past participle has different forms in relation to verbs <u>ya</u> 'go' and <u>e</u> 'come'. Verb <u>ya</u> 'go' has <u>gihin</u> or <u>gihilla</u> (gihin+la)'go and, went and, having gone ' and verb <u>e</u> 'come' has <u>wwit</u> or <u>wwilla</u> (wwit+la) 'come and, came and, having come' as full past participle forms.

e.g.

sunil redi hoodala naanawa
Sunil clothes washed and is bathing
Sunil washed his clothes and is bathing.
(Having washed his clothes Sunil takes a bath).

balela miiyek allagene kussiyeTe diwwa the cat a rat caught and to the kitchen ran The cat caught a rat and ran to the kitchen. (Having caught a rat the cat ran to the kitchen).

gaha wæTi<u>la</u> gee kæDuna
The tree fell and the house broke down .

maama giyə sumaane gedərə <u>wwilla</u> iiye aapahu giyaa uncle last week home came and yesterday back went (My) uncle came home last week and went back yesterday.

8.13.7. More syntactic and semantic facts about these parti-ciples may be uncovered in an exhaustive study of coordination
in Sinhalese, beyond the scope of this study.

8.14. THE AUXILIARY OF CONSTITUENT SENTENCES

8.14.1. In the process of subordination in Sinhalese, certain expressions denoting functions such as condition, concession, temporal and cause etc. are added to the auxiliary of the constituent sentence whose modality is sometimes deleted. Since the auxiliary is attached to the phonological verb, these complex expressions consisting of verb + aux + subordinate conjunction have been treated as 'non-finite verbs' in tradit--ional and structural descriptions of the verb in Sinhalese. Without studying subordination in Sinhalese in detail, it is exptremely difficult to explain these so-called 'non-finite"

verbal' expressions. There are some expressions which need historical explanations. Side by side with such historically surviving usages, there are some very common expressions which can be explained in relation to some underlying sentences which are in current usage.

- 8.14.2. Since this is not an attempt to study subordination in Sinhalese, I do not propose to go into any details. However, I propose to recognise four classes of subordinate conjunctions on semantic function as conditional, concessive, temporal and cause. In the following section I list the expressions in relation to these four functions.
- 8.14.3. Gonditional function: -- (a) (h)ot 'if'after the aux without Ind. modality.

Historically hot was added to an already existing condition--al form with to, wo, yo, no etc. This usage has disappeared. However, as I have given, we may, in the modern usage, relate the wo, yo, no etc. to the tense and aspect realisations (v.8. 5.4. - 8.5.10.). Nevertheless, we have to treat to either as an alternative of no (i.e. npt. generic.v.8.5.4.) or as a special case where to can not be related to any tense and aspect categories, but a historical form. no never occurs before (h)ot. This is a problem in all cases where to is found. I prefer to treat to as a variant of no in relation to a few morphemes such as -den, di, (h)ot and t.

seekərə koləmbə yanəwa + cond.subord.conj.+ maTə kiyannə \Longrightarrow Sekara Colombo go if me tell seekərə koləmbə yatə-(h)ot maTə kiyannə Sekara Colombo go if me tell.

If Sekara goes to Colombo, (plese) tell me.

eyaa aawa + cond. subord. conj.+ maama enewa =>
he came if uncle come

eyaa aawa-(h)ot maama enawa he came if uncle come If he came uncle would come.

(b) nan 'if'/after the aux.

e.g.

seekərə koləmbə yanəwa + cond.subord.conj. + maTə kiyannə =>
Sekara Colombo go if me tell

seekere kolembe yanewa <u>nan</u> maTe kiyanne Sekare Colombo go if mw tell Tell me if Sekara goes to Colombo.

Also:

eyaa aawa + cond.subord.conj. + maama enawa =>
he came if uncle come

eyaa aawa <u>nang</u> maama enewa he came if uncle come If he came uncle would come.

8.14.4. Concessive function:

(a) \underline{t} 'even if'/ after the aux. without Ind. modality (cf.8.14.3.).

e.g.

balla mærenewa+ conc.subord.conj.+ mame uuTe beet denewa+++
the dog die even if I to it medicine give

balla mære-ta-t mame uuTe beet denewa
the dog die even if I to it medicine give
Even if the dog dies, I(11) give it the medivine.

gonaa wæTe kæDuwa + conc.subord.conj.+gonaa weleTe bæsse nææ
the bull the fence broke although the bull to the field
went into not

gonaa wæTə kæDuwa-t weləTə bæsse nææ

Even though the bull broke the fence, it did not go into the field.

- (b) unat'even if! even though'/after the aux.
- e.g.

 balla mærenewa <u>unat</u> mame beet denewa

 Even if the dog dies, I (11) give it the medicine.

gonaa wæTe kæDuwa unat weleTe bæsse nææ

Even though the bull broke the fence it did not go into

the field.

8.14.5. Temporal function subordinate conjunctions are introduced after the indicative modality is deleted from the auxiliary of the underlying sentence. There are several express-ions such as the following which function as subordinate conjunctions:

e.g.

TawumeTe yaddi maTe kataa-keranne (yaddi yate+di te ne) to the town when go me call Call me when you go to the town.

Also:

TawumeTe yane koTe: maTe kataa-keranne Call me when you go to the town.

pansələTə yanə gaman kaDeeTat gihin ennə to the temple go while to the shop too go and come When you go to the temple go to the shop too.

kantooruwe wahane-<u>kal</u> mame inne oonæ the office close till I stay must I must stay till the office is closed.

e.g.

the child when did come well entertain do When the child has come do entertain him well.

gameTe giye-hæTiye/gaman mame panseleTe yanewa
to the village immediately after goimg I to the temple go
Immediately after going to (my) village, I pay a visit to
the temple.

pissu balla $\left\{ \begin{array}{l} kææwə-koTə \\ kaapu-koTə \end{array} \right\}$ beet no-kərə hondə nææ the rabid dog when did bite medicine not doing good not When the rabid dog has bitten it is no good avoiding treatment.

8.14.6. Cause function subordinate conjunctions too are introduced after deleting the indicative modality of the aux. of the underlying constituent sentence. There are two conjunct-ions such as:

e.g. aadəre-yi

lameya hondəTə wæDə kərənə-hinda/nisaa guruwəreya eyaaTə/
the child well work because the teacher(to) him fond is
The teacher is fond of the child because he learns well.

Before comcluding this chapter by introducing a few more sentence connectives and conjunctions, it must be mentioned clearly that the sections 8.13. and 8.14. are not to be considered as complete accounts of coordination and subordination in Sinhalese. In add ition to the participles and subordinate comjunctions introduced in the above mentioned sections, one has to take into account the process of relativisation, nominal-isation and a reasonable number of connectives and conjunctions in any thoroughgoing study of coordination and subordination.

Since the limited period of time available to me does not permit me to embark upon an exhaustive study of this aspect of syntax in Sinhalese, I simply propose to introduce a few sentence connectives and conjunctions in the next section without going into details.

8.15. <u>SOME SENTENCE CONNECTIVES AND CONJUNCTIONS</u>

8.15.1. There is a class of connectives, some of which are listed below, which function sometimes either as subordinate conjunctions or as connectives.

(ee)misak 'except (that), although'

e.g.

miniha aawa (ee) misak kisi deyak keruwe nææ
the man came except that any thing did not do
Even though the man came, he did not do any thing.

(ee) are 'except (that)'

```
(ee) <u>wrunaame</u> 'except (that), although'
     namut 'but, though, ... '
     eet 'nevertheless, yet,.'
     <u>mrat</u> 'moreover, furthermore!
     ee-unat 'however, but , yet, '.
     ee-unaaTe ' " ", although..'
     itin 'then, so,...'
     ii langeTe } 'then, next, after that,..'
     <u>iiTə-passe</u> 'after that'.
     iiTə (issella issərə(wela) 'before that'
     oya widiyaTa 'thus, ..'
     mehema d'in this way'
     hæbæy' but, yet,...'
     ee-ataredi 'in the meantime'
     etakoTa 'then'
     ee-anuwa 'accordingly'
     eet-ekkəla 'besides that'
        etc.
8.15.2.
          One may find a few coordinative conjunctions as well.
They are listed below:
     t ' too, also, and'
e.g.:
     mama kaDeeTa giyaa, baDut genaawa
     I to the shop went goods too brought
     I went to the shop, (and) brought goods too.
```

yi.... yi 'and (in phrasal conjunction) '

e.g.

minihayi putayi gedərə innəwa the man and (his)son and at home are The man and his son are at home.

hari hari 'either or '

e.g.

pææne <u>hari</u> pænsele <u>hari</u> denne pen or pencil or give Give me either the pen or the pencil .

ekko ... næti nan 'either or'

e.g.

ekko tamuse enewa nættan lemeya ewenewa either you come or the child send Either you 'd better come or send the child.

 $\underline{t} \dots \underline{t}$ ' and, as well as'

e.g.

maTə potat oonæ sallit oonæ
I the book want meney and want
I want the book as well as money.

8.15.3. All these connectives and conjunctions and many more must be taken account of in any study of coordination and subordination. However, I conclude this chapter with this very brief account on the domain of 'complex sentences'.

<u>PART THREE</u> <u>MORPHOPHONOLOGY</u>

PART THREE

MORPHOPHONOLOGY

INTRODUCTION

- III. 1. The purpose of this section on Morphophonology, the study of phonological shape of morphemes, 'words' and sentences, is in the attempt of a discussion of some phonological considerations relevant to the account of phonetic representation of sentences in Sinhalese.
- III.2. To account for the choice of one of different realisations of the [+ and sg] features of the category of number (see Ch.3.) I propose to establish a number of noun classes.
- III.3. Syllabic structures are established for the explana-tion of the verb.(In the discussion of the NP and Verb, addi-tional explanations than furnished under the syntactic discuss-ion have been included as appropriate.) Verbs always combine
 with auxiliary in forming the phonological 'verb word'. A
 number of processes basically associated with verb forms are
 also discussed in the chapter on verb.
- III.4. In another chapter, called Sandhi 1 (Internal sandhi) an attempt is made to introduce a number of phonological rules that must be applied in the production of the phonetic form of the units usually called 'words'. Finally in a yet another chapter, called Sandhi 2 (External sandhi), some additional phonological rules are introduced to account for the phonetic representation of whole sentences.

III.5. As an introduction to the study of morphophonology of Sinhalese it may be appropriate to introduce the inventory of vowels and consonants of spoken Sinhalese. Since a specification of possible vowel and consonant clusters may be useful, attempt is also made to provide a brief specification. The inventory of vowels and consonants given below is, except for a few modifications, mostly in agreement with the phonemes recognised by Coates, W.A. and De Silva, M.W.S. 1. Modifications such as the recognising of five nasals instead of three and four prenasalised stops enable us to represent data more clearly.

III.6. <u>VOWELS IN SPOKEN SINHALESE</u>

There are three front vowels - high, mid and low - $[\underline{i},\underline{e}]$ and \underline{a} , and three corresponding back vowels - high, mid and low - $[\underline{u},\underline{o}]$ and \underline{a} and one mid central vowel -shwa - $[\underline{e}]$. All these seven vowels may occur as long vowels. The length is represented throughout this thesis by doubling the vowel in question. We may tabulate the vowels in Sinhalese thus:

Vowels	Fr	Front		Central		Back		
	long	snort	long	snort	long	snort		
High	ii	i			uu	u		
Mid	ee	е	99	Э	00	0		
Low	ææ	æ	_	_	aa	a		

Table 1

III. 7. Any vowel, short or long, except the mid central

¹ see Coates, W.A. and De Silva, M.W.S., 1960.

vowel, short and long (= [ə, əə]) can occur initially. Any vowel but the mid central long vowel [əə], can occur finally. All vowels can occur medially. (ə,əə can occur in the initial syllable when preceded by a consonant.)

III.8. CONSONANTS IN SPOKEN SINHALESE

There are eight plosives (or stops) of which four are voiceless and four are voiced. They are either bi-labial ([p, b]), dental and alveolar ([t,d]), retroflex ([T,D]) or velar ([k,g]). There are two palatal affricates, one voiceless and the other voiced ([c and j]). There are five nasals correspond--ing to the four classes of plosives and the palatal affricates. Nevertheless, the retroflex nasal ([N]) occurs only in clusters where the second consonant is a retroflex stop ([T or D]). There are restrictions in relation to other nasals as well, and some of these are introduced later. The five nasals are the bi-labial ([m]), dental and alveolar ([n]), retroflex ([N]), palatal ([n]) and velar ([n]). Then there is one lateral dental and alveolar ([1]), one rolled, dental and alveolar ([r]), four fricatives, labio-dental ([f]), dental and alweolar ([s]), palato-alveolar ([]) and glottal ([h]) and two continuants and semivowels, labial ([w]) and palatal ($\{y\}$). Finally we have to recognise potentially five prenasalised stops such as, bi-labial prenasalised stop ($[oldsymbol{ ilde{m}b}]$), dental and alveolar prenasalised stop ([nd]), retroflex ([nD]), palatal ([nj]) and velar ([ng]). However, productively we get only four prenasal--ised stops as the palatal prenasalised stop [mj] is most rare,

¹ Terminology used here is that of the International Phonetic Association.

possibly for historical reasons (-cf. j's evolving to d as in Sk., Pali, pj to nd in apjene > andum (Sinh.) 'antenomy, cosmetic'). Yet [nj]occurs at least in one expression, name--ly [inje]'? come, used in calling dogs and cattle etc. However, as this prenasalised stop does not occur in any other word in Sinhalese, it may be excluded leaving only four prenasal--ised stops as given in the table 2 below.

Table 2

Consonants			labio- iental	dental and al- -veolar		retro- -flex		alveolar	palat-		velar		glo- ttal
	vl	vd	vl	vl	vd	vl	vd	vl	vl	vd	vl	vd	٧l
plosive	p	Ъ		t	đ	T	D	-	-	-	k	g	1
affricate	-	-	-	-	-	-		-	С	j	-	-	-
prenasali- -sed stop or plosive	_	(m̃b) ¹	-	-	(ñd) ¹	-	(ND) ¹	-	-		-	(ŋ̃g)	1 -
nasal	-	m	-	-	n	-	(N) ¹	-	-	p	-	(ŋ)	1 -
lateral	-	-	-	-	1	-	-	-	-	-	-	-	-
rolled	-	-	-	-	r	_	-	_	-	1	-		-
fricative	-	-	f	ន	_	_	-	ſ	•	-	-	-	h
continuant and semi-vowel	_	w	-	-	-		_	-	-	У		-	-

¹ Those consonants within parentheses may not be recognised as separate phonemes. Yet their alphabetic recognition is necessary in this study to represent data orthographically and/or phonetic-ally.

III.9. Throughout this thesis I have used the notation of the tables 1 and 2.

 $\frac{\text{lind} + 9 \Rightarrow \text{lind} \Rightarrow \text{the well',but } \underline{\text{lind}} + \cancel{0} \Rightarrow \text{tin} \Rightarrow \underline{\text{lin}} \text{ 'wells'}}{\text{ang} + 9 \Rightarrow \text{ang}} \text{ 'the horm', but } \underline{\text{ang}} + \cancel{0} \Rightarrow \text{*ang} \Rightarrow \underline{\text{an}} \text{ 'horns'}}$ cf. also:

polong+aa ⇒ polongaa ⇒ polonga 'the viper'

polong+hu ⇒ polongu 'vipers' but

polong ⇒ polon in polon telissa 'a kind of viper'

(polon telissa by external sandhi ,v.ESR7 in 12.1.5.)

III.11. Finally it must be mentioned that there are some consonants which occur in word final position only in a few direct loan words where original pronunciation is preserved; otherwise consonants such as \underline{b} , \underline{d} , \underline{T} , \underline{D} , \underline{c} , \underline{i} , \underline{g} , \underline{m} , \underline{n} and \underline{r}

usually do not occur word finally in native or derived Sinha--lese words. However they occur in loan words as illustrated below.

```
: hab 'hub(s)'
-b
      job 'job(s)'
      balb 'bulb(s)'
-d
    : ?
-T
    : biiT ruuT 'beet root'
      kæreT 'carrot(s)'
    : huD 'hud(s)'
-D
    : biic 'beach(es)'
      s(u)wic 'Switch(es)'
      pæc 'patch(es)'
    : koleej 'college(s)'
      loj 'lodge(s)'
   : jag 'jug(s)'
    : kaar 'car(s)'
      baar 'bar(s)'
    : Tin 'tin(s)'
      pin ('pin(s)'
    : kælsiyəm 'calcium'
```

Tiim 'team(s)'

All these examples make it clear that these consonants -b, (d), \underline{T} , \underline{D} , \underline{c} , \underline{j} , \underline{g} , \underline{r} , \underline{n} and \underline{m} etc. occur in word final position only in loan words from English.

III.12. Next we have to examine the vowel clusters and conso--nant clusters in Sinhalese. It is assumed that no two non identical vowels can occur together. One may argue that there are diphthongs in Sinhalese, but throughout this study I

vowels

maintain that where ver two/are heard together as diphthongs, there exists a semi-vowel <u>y</u> or <u>w</u> in between those two vowels, however slight its pronunciation. In other words I hold the view that no two vowels except the same where a long vowel is the result, can occur together without an intervening semi-vowel, a consonant or a cluster. However, when we hear vowel clusters we must realise that all of them contain an intervening light accentuated semi-vowel <u>y</u> or <u>w</u>. Thus we may state the possible quasi-vowel combinations with the intervening semi-vowel as suggested below:

(a) (i)i +
$$\begin{bmatrix} e(e) \\ e(e) \\ o(o) \\ g(æ) \\ a(a) \end{bmatrix} \Rightarrow (i)i y \begin{bmatrix} e(e) \\ e(e) \\ o(o) \\ g(æ) \\ a(a) \end{bmatrix}$$

$$(i)i + u(u) \implies (i)i w u(u)$$

(b) (e)e +
$$\begin{bmatrix} a(a) \\ i(i) \\ o(o) \\ a(a) \end{bmatrix} \Rightarrow (e)e y \begin{bmatrix} a(a) \\ i(i) \\ o(o) \\ a(a) \end{bmatrix}$$

$$(e)e + u(u) \Rightarrow (e)e w u(u)$$

$$\begin{bmatrix} e(e) \end{bmatrix} \qquad \begin{bmatrix} e(e) \end{bmatrix}$$

$$(x)x = \begin{bmatrix} y \\ w \end{bmatrix} \\ (x)x = \begin{bmatrix} y \\ w \end{bmatrix}$$

$$(x)x = \begin{bmatrix} y \\ w \end{bmatrix}$$

$$\begin{bmatrix}
a(a) \\
b)
\end{bmatrix}$$

$$\begin{bmatrix}
a(a) \\
e(e) \\
o(o) \\
e(x) \\
a(a)
\end{bmatrix}$$

$$\begin{bmatrix}
a \\
y \\
e(e) \\
o(o) \\
e(x) \\
a(a)
\end{bmatrix}$$

If we accept the facts stated above we have to admit that there are no vowel clusters in Sinhalese, only long or short vowels.

III.13. Now let us examine the different possible consonant clusters in Sinhalese. We find two-part consonant clusters occurring both word initially and medially but never finally; a few three-part consonant clusters occur mostly medially, except for one or two cluster(s) such as str in strii 'female,

woman' which occur initially. Most, but not all, of the consonants may occur doubled medially, however. Many more clusters are confined either to loan words or educated speech. The two-consonant clusters that occur medially are given in table 3 (q.v.) where the clusters within parentheses occur in learned usages.

III.14. Both consonant clusters that occur word initially are found in loan words -- mostly in the speech of the educated. The double-consonant clusters occurring initially in Sinhalese are given in table 4(q.v.).

III.15. As stated earlier (v.III.13), there are a few possible three-part consonant clusters which occur medially in most cases, in Sinhalese. If we examine tables 3 and 4 we see that the cluster consisting of \underline{r} as its second consonant seems comparatively productive in the language. The same cluster occurs in many three-part consonant clusters as well. In most cases the two-part consonant cluster with a second \underline{r} (i.e. \underline{Cr}) is preceded by either a homogranic nasal consonant, or a homogranic stop. There may be other combinations such as in $-\underline{str}$ and $-\underline{ksm}$ etc. All of the clusters with $-\underline{Cr}$ as the second and third consonants may be stated as given in table 5 (q.v.).

When assimilation produces three-part consonant clusters, one consonant is dropped, usually the last(v.11.2.11 e.).

Table 3

					·												i			,	·		
	р	ъ	t	đ	T	D	С	j	k	g	m	n	N	, p	ŋ	ı	r	f	s	l	h	w	У
р	pp	-	(pt)	-	-	-	_	-	-	-	рm	pn	-	-	· -	(pl)	pr	-	(ps)	_	-	_	-
ъ	-	ЪЪ	-	(bd)	-	-	-	-	_	-	-	-			-	(bl)	br	-	-	-	-	-	(by)
t	(tp)	-	tt	-	-	-	-	-	(tk)	-	tm	tn	-			tl	tr	-	(ts)	_	-	(tw)	(ty)
đ	-	(db)	-	dd	-	-	-	-	_	(dg)	dm	-		g garden gran	-	-	dr	_	_	-	-	(dw)	(dy)
T	_	-	-	-	TT	-	-		-	-	-	(Tn)	-	_	-	-	-	_	-	-	-	-	-
D	1	-	-	_	-	DD	**	-		(Dg)	-	**	-	-	-	-	-	-	_	-	_	-	_
С	1	-	-	-	_	-	cc		-	-	-	-	-	-y cn	~	-	_	-	-	-	-	-	-
j	-		_	-	-	-	-	jj	-	-	-			(jp)	•••	-	(jr)	-	_		-	(jw)	(jy)
k	-	-	(kt)	-	-		-	_	kk	-	km	kn	-	kņ	•	(kl)	kr	_	ks	(kf)	-	kw	(ky)
g	-	(gb)	-	(gd)		_	-	_	-	gg	gm	gn		gjr		(gl)	gr	_	-	-	-	_	(gy)
m	mp	mb	-	-	-	-	-	_			mm	_	-	-		ml	(mr)	-	-	-	_	-	-
n	-	-	nt	nd	_	-	-	-	-	-		nn	-	-	-	nl	-	-	ns	-	_	nw	ny
N	_	-	-	_	NT	ND	-	_	-	-	-	-		-	_	-	-	-	_	-	_	-	-
p	-	-	-	_	-	-	рc	рj	-	-	_	-	-	bla	-	-		_	_	-	-	-	-
ŋ	_	-	_	-	_	_	-	_	ŋk	ŋg	-	-	-	-	ຐຐ	_	-	_	ŋs	(ŋf)	ŋh	ŋw	ŋy
1	lp	lb	(1t)	ld	_	_	_	-	lk	lg	lm	-	-		-	11	_	(lf)	(ls)	-		lw	ly
r	(rp)	(rb)	rt	rd	-	-	(rc)	rj	rk	rg	rm	rn	-		-	rl			rs	(rJ)	-	ľW	ry
f	_	_	-	_	_	-	-	_		_		-		-		***			_	-	_	~	-
s	sp	sb	st	sd	sT	-	sc	-	sk	sg	sm	sn	-		-	(sl)	sr	_	ss	-	-	sw	sy
ſ	-	-		-	(JT)	-	(1c)	-	(sk)		(Sm	(sn)	-	, -	•	(11)	(Jr)	-	_	-	- 1	(Jw)	(Jy)
h		_	-	-	-	-	-	-	-	-		-		1	-	•	(hr)	-	-	-	-	•	-
W	-	_	-	-		_		_	_		-	-	-	-		-	(wr)	-	-	-	-	WW	(wy)
У	_	-	-	<u> </u>		_	_		_	-	-	_		-		_	-	-		_	-	Уw	уу

Table 4

	p	р	t	đ	Т	D	O	j	k	ති	m	n	N	ŋ	ŋ	1	r	f	ន	ſ	h	W	У
р	-		-	-	1	-	1	-	_	-	-	-	-	1	-	-	pr	-	-	1		-	-
ъ	-	-	-	-	-	1	-	-	-	-	-	-	-	•	-	bl	br	•	-	1	-		_
t	-	1	-	1	-	1	1	-	-	-		-	-	-	-	-	tr	-	-	1	1	-	ty
d	1	•	-	-	-	-	1	-	-	-	-	-	-	-	1	-	dr	-	1	-	_	dw	-
T	-	-	-	-	-	-	-	-	-	-	1		_	-	1	-	Tr	-	-		-		-
D	-	-	-	-	-	-	-	_	-	_	•	_	-	-	1	-	Dr	-	-	-	-	-	_
j	1		-	-	_	-	-	-	-	_	-	-	-	jņ	-	-	-	1	1	-	•	jw	ју
k	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ł	•	kr	-	-	k∫	1	-	_
g	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	gl	gr	-	-	-	-	- .	_
m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	ml	-	-	-	-	-	_	_
n	-	•	-	-	-	-	-	-	_	-	-	-	-	-	1	-	_	_	-			_	ny
f	-	-	-	-	L	-	-	-	-	-	-	-	-	-	1	_	fr	-	-	-	-	-	_
				-	-	-	_		-	-	-	sn	-		-	sl	sr		-	-	1	sw	
	L	L	L		-	-	-	F	-	-	-	-	-	-		ſl	ſr	-	-	-	-	∫w	_
h	-	_	_	-	F	-	-	F	-	-	-	· .=	-	-	-	-	hr	-	-	-		-	_
w	-	-	-	-	-	-	-	_	-	-	_	-	-	-	-	-	wr	-1	-	J	1	•	wy

Two-part consonant clusters (initial)

Table 5

	pr	br	tr	dr	jr	kr	gr	sr	∫r
m	mpr	mbr	-	-	-	1	•	-	-
n	-	•	ntr	ndr	ı	-	-	-	-
ŋ	_	-		1	1	ŋkr	ŋgr	-	
р	ppr		•	•	ı	-	-	-	-
ъ	_	bbr	1	1	1	-	-	-	-
t	-	-	ttr	-	ı	-	1	-	-
d		-	-	ddr	•	•	1	-	-
j	-	-	-	-	jjr	1	-	-	-
k	-		ı	1	1	kkr	1	1	-
g	-	-	-	-	-	-	ggr	-	-
s	_	-	-	1	_	-	-	ssr	-
ſ	-	-	-	1	-	-	-	-	∫∫r

Three-part consonant clusters (medial)

III.16. Ending the introduction at this point, I turn to the discussions of different shapes of nouns and verbs which comprise the next two chapters. The nouns have one basic form: certain changes that occur when feminine nouns are derived from masculline (or neutral) nouns will not be discussed, as derivational morphology is not included in this study. All other changes nouns are subject to, can be explained in relation to sandhi between the nouns and the number realisations. In chapter 9, to explain the choice between different number realisations, nouns are classified into a number of classes. Verbs deserve a thorough study as they have different shapes in different contexts. Thus, the verb

is studied in detail in chapter 10.

Adjectives, conjunctions, connectives and different other morphemes introduced as realisations of different functions or processes (see also Appendixes) etc. have no further separate discussion, the relevant syntactic and semantic discussions themselves are considered sufficient. In most cases there is just one basic form and any changes in that form may be due to sandhi between two morphemes: this is the subject of chapter 11. Finally sandhi between 'words' is discussed in chapter 12.

CHAPTER 9

- 9.0. (THE PHONOLOGICAL) NOUN PHRASE
- 9.0.1. In chapters one and two, I have discussed nouns -common, proper, kinship and status -- and pronouns from a
 syntactic point of view. I there attempted to introduce phonological nouns together with a specification of some syntactic
 and semantic features that constitute the deep structure of
 those nouns and pronouns.
- 9.0.2. Not all proper nouns, kinship nouns, status nouns and most pronouns need be discussed here as they may be intro--duced and explained within the syntactic description itself (as we have attempted in the relevant sections of this thesis). One or two pronouns which need further explanation will be dis--cussed later. Meanwhile, to account for the factors that govern the selection of alternative realisations of the category of number (i.e. [+sg] and [-sg] features) in relation to common nouns we have to classify the latter. We may be able to account for some of the class choices phonologically, taking into account the vocalic or consonantal nature of the final phonetic element of the noun. While doing so, we must also account for certain exceptions in some other way. If we set up some noun classes phonologically, taking into account the associated number reali--sations, we can account for all nouns without much difficulty. In the next section, I propose to establish a number of phono--logical noun classes for the common noun.
- 9.1. A SET OF PHONOLOGICAL NOUN CLASSES FOR THE COMMON NOUN
- 9.1.1. All common nouns, abstract or otherwise, are associated

either with singular number only, plural number only, or with both. Taking into account only the plural (i.e.[-sg]) number realisation in establishing noun classes we find that we may be able to set up five broad classes of common nouns. We must then proceed to subclassification to account for the difference in singular number realisation. Thus embracing both singular and plural forms, we are able to establish a number of noun classes on the basis of the uniformity existing throughout the whole class.

9.1.2. On the basis of different [+sg] and [-sg] realisations, I propose to recognise ten classes of phonological nouns in the description of common nouns and their choice of number realisation in Sinhalese. These ten classes are discussed with examples in the subsequent sections of this chapter.

9.1.3. <u>Class</u> 1

All nouns of class 1 take o as [-sg] realisation and aa as [+sg] realisation. The class consists of a large number of vowel final nouns and a few consonant final nouns as illustrated below:

-aa : haa 'hare' taaraa 'duck' kaa 'moth' anjilaa 'a kind of fis

kaa 'moth' apjilaa 'a kind of fish'

-i : diwi 'leopard' gembi 'frog'
ibi 'tortoise' mæsi 'fly'
(koTi 'tiger')

-mm : nmm 'relation' urulmm 'civet cat' kmsbmm 'turtle' pattmm 'centipede'

¹ This is given in parenthesis because it can belong to another class - class 3 (v.9.1.5.).

-u : balu 'dog' yaalu 'friend'
kolu 'boy' wasu 'calf'
buuru 'ass' uuru 'pig'
kapuTu 'crow' makunu 'bug'

-ee : wee 'termite'

-e : muwe 'deer' garuDe 'centipede'
asse 'horse' naage 'cobra'

-C : kaak(k) 'crow' mayin 'myna 'nimun(n) 'twin'

9.1.4. Class 2

All nouns that belong to this class select $\underline{h}\underline{u}$ as the [-sg] realisation. The [+sg] is $\underline{a}\underline{a}$ as in class 1. This class includes many consonant final nouns as well as some vowel final nouns -- especially some- $\underline{a}\underline{a}$ final and $\underline{-}\underline{a}$ final with or without a preceding \underline{r} -- as illustrated:

-aa : giraa 'parrot' rilaa 'ape' radaa 'washerman' pilaa 'larva'

-re : hore 'thief' eNDeere 'herdsman' kore 'lame' toore 'seir fish' debere 'hornet' bamere 'wasp' monere 'peacock' moore 'shark'

-e : aande 'eel' wede 'physician'
goone 'elk' (samenele 'butterfly')

-C : mt 'elephant' kok 'crane' kmmral 'wood pecker' kmmbul 'crocodile' gon 'ox balal 'cat'

¹ This may belong to another class as well, class 4 (v.9.1.6.).

minis 'man' walas 'bear'
sat 'beast; being ...' kukul 'fowl'
wawul 'bat' kowul 'cuckoo'
polong 'viper' luul 'a fresh water fish'

9.1.5. Class 3

The nouns of this class combine with zero (= \emptyset), the [-sg] realisation, and <u>aa</u> the [+sg] realisation. However, as suggested above (v.9.1.3.), most -<u>i</u> final nouns vcan take <u>o</u> as the plural realisation as well. One finds both vowel final (-<u>i</u>) and consonant final nouns in this class. They include:

- -i : koTi 'tiger' ali 'elephant'

 kaDi 'large black ant' kaawaaTi 'oyster'

 kuumbi 'ant' gærəNDi 'rat snake'

 geri 'black ant' nari 'fox'

 mugəTi 'mongoose' pirimi 'male;man'

 daNDi 'a fresh water fish'

 (also v. 9.1.3. -i final nouns.)
- -C : harak 'cattle' nay 'cobra'
 taləgoy 'iguana' kabərəgoy 'spotted iguana'
 kurulugoy 'falcon' baTəgoy'orange brested green
 pigeon'

9.1.6. Class 4

There are a few nouns that take <u>i</u> as the [-sg] realisation. They too select <u>aa</u> as [+sg] realisation. Most of these nouns are -<u>a</u> final, as listed below:

-a : sarapa 'serpent' kabara 'spotted iguana' bala 'a sea fish' (samanala 'butterfly')

¹ cf. 9.1.4.

9.1.7. Class 5

These nouns also combine with the <u>o</u> plural marker but they take either $-\underline{\mathbf{o}}$ if the nouns end in any vowel except $\underline{\mathbf{i}}(\underline{\mathbf{i}})$, or $-\underline{\mathbf{o}}$ or \mathbf{p} if the nouns are $-\underline{\mathbf{i}}(\underline{\mathbf{i}})$ final. Thus to account for the optional $\left\{ \begin{array}{c} \mathbf{p} \\ \mathbf{o} \end{array} \right\}$ selection of $-\mathbf{i}(\mathbf{i})$ final nouns and obligatory $\underline{\mathbf{o}}$ selection if they are not $\mathbf{i}(\mathbf{i})$ final, I propose to sub divide class 5 into 5a to include $\mathbf{i}(\mathbf{i})$ final nouns and 5b to include other nouns, as illustrated below:

5a

-i(i): bælli 'bitch' kikili 'hen'
iiri 'sow' kaakki 'hen crow'
kirilli 'hen bird' girəwi 'hen parrot'
riləwi 'female ape' wæssi 'heifer'
kelii 'girl' daasi 'servant woman'
ætinni 'cow elephant' wæləhinni 'she bear'
hæpinni 'female cobra' yassənii 'female demon'

5b

-aa : maataa 'mother' mahilaa 'woman' upaasikaa 'female devotee'kaantaa 'lady, woman'

-u : ambu 'wife'

9.1.8. Class 6

This class includes only a few nouns. They take <u>hu</u> as plural marker but, as pointed out in relation to class 5, they take either <u>Ø</u> or <u>a</u> as singular marker. Most of these nouns end in a consonant as the examples show: there is just one noun which ends in a vowel. Consider the following examples:

- -C : koTi-den 'tigress' sinha-den 'lioness' mii-den 'female buffalo' den 'cow'
- -i : gææni 'woman'

9.1.9. Class 7

This class, too, is sub divided, (a) and (b), to account for the difference in selection of plural markers. Certain nouns of this class take \emptyset only as the plural marker whereas certain other nouns take either \emptyset or wal optionally. In both cases \bullet \bullet , is the singular realisation. The sub class 7(a) which has only the \emptyset plural marker, consists of both vowel final and consonant final nouns. 7(b), it seems, is confined to certain long vowel final nouns. The two sub classes are illustrated below:

7a

-i : geDi 'fruit, abscess' iri 'line'

pæni 'syrup' paTTi 'herd'

lori 'lorry' piTi 'flour, ground'

-ii : lii 'wood, timber' ii 'dart, arrow'
mii 'hive' hii 'ploughing'

-ææ : bææ 'half (of a nut)' wææ 'adze'

-u : aTu 'granary' oru 'boat' kaDu 'sword' puTu 'chair' kopu 'case' pokunu 'pond'

-oo : poroo 'axe' soloo 'stanza' reeDiyoo 'radio'(cf. class 10 also.)

-ee : lee 'blood'

#C : ang 'horn' lind 'well'
gas 'tree' gal 'rock'
kan 'ear' agal 'ditch'
pas 'smil'

7b

-aa : maaligaa 'palace' upəmaa 'simile' gabəDaa 'store' gaataa 'stanza'

guhaa 'cave' panaa 'comb' sangaraa 'magazene' basaa'language'

-ææ : horanææ 'trumpet' kælææ 'forest' kurulææ 'pimple'

9.1.10. <u>Class</u> 8

This class includes those nouns that have <u>wal</u> only as plural marker and \emptyset as singular marker. Most of these nouns are $\frac{1}{2}$ final. Some are given below:

-e : kaTe 'mouth' mide 'bed' ende 'canal' gange 'river' kande 'stem, log' dore 'door' paare 'road, blow' baDe 'belly' waTe 'fence'.

9.1.11. Class 9

Those nouns that have <u>ee</u> as singular marker and \emptyset as plural marker belong to this class. Most of these nouns are either $\underline{\underline{9}}$ final or consonant final. They include:

-C : banis 'bun' kos 'jak'(fruit)

pol 'coconut' naaram 'mandarin'

bayisikal 'bicycle'(v.cl. 10 also.)

¹ These nouns may take -an as plural marker instead of wal. e.g. andan 'beds', kandan 'logs'.

9.1.12. Class 10

This class consists of many nouns which are loan words from English. They combine with the plural marker (cf.classes 7a and 9 above) and the eka singular marker. These nouns may be either vowel final or consonant final. A few examples are given below:

- -C: kaar 'car' bayisikal 'bicycle'(v.cl. 9 above)
 bas 'bus' keek 'cake'
 sup 'soup'
- -V : reeDiyoo 'radio' (cf. cl.7a above)

9.1.13. I believe that most nouns that belong to the broad class called common noun, can be included in one or other of these ten classes. The choice of the appropriate number realisation from the different possible alternative realisations, can also be easily explained in relation to these ten classes. As I indicated earlier (v.III.16) all the changes these nouns undergo in different contexts can be stated in terms of sandhi between morphemes or 'words'. Thus we conclude the section on noun classes.

9.2. ALLOMORPHIC VARIATION OF 1P PRONOUN AND 2P DEROGATORY PRONOUN

9.2.1. Proper nouns, kinship nouns and status nouns need not be discussed at all as the changes they are subject to can be accounted for in terms of sandhi. Most pronouns can also be dealt with under sandhi but with regard to 1P pronouns (v.2.1.2.-2.1.4.) and 2P derogatory pronouns (v.2.2.5. and 2.2.9.) we have to imtroduce some allomorphic variations of the basic form of the pronoun introduced in the syntactic discussion (v.2.1.2.-2.1.4; 2.2.5.; 2.2.9.).

9.2.2. We have introduced two forms mame 'I'(v.2.1.2.) and api 'we' (2.1.3. - 2.1.4.) as the realisations of the different 1P pronouns. Phonologically mame and api have a number of alternative forms which occur in certain contexts. These allomorphic variations of the two basic forms may be stated in a context sensitive rule of the following form:

9.2.3. We also have introduced two derogatory 2P pronouns too 'you' and topi 'yuo pl.'. With regard to these two forms also, there are a few allomorphic variations that must be recognised. They may be stated as suggested in the following rule, similar to that given above for allomorphic variations of mame and api.

- 9.2.4. There is no need to discuss all nouns and pronouns phonologically apart from those that have already been discuss—ed, as they can be satisfactorily explained in the appropriate syntactic discussion (see Ch. 1 and 2). Let us, therefore, here conclude our discussion on nouns and consider some allomorphic variations in relation to some of the number realisations.
- 9.3. ALLOMORPHIC VARIATION OF SOME [-sg] NUMBER REALISATIONS
 9.3.1. The basic realisation of [-sg] number category has
 been represented in 3.1.8. Yet, some alternants of those basic
 forms must be introduced in relation to certain contexts of
 occurrence. As far as [+sg] realisation is concerned we need
 not recognise any allomorphs for the different basic realisations.
 However, when we take into consideration the different realisa-tions of [-sg] feature, we see that most of them have two
 variants, one occurring before word boundary and the other
 before certain morphemes which the language does not recognise
 as having the status of 'word' which is a very arbitrary unit
 (see 11.1.). These variants are discussed in the subsequent
 sections.
- 9.3.2. We have already recognised seven alternative realisa-tions of the [-sg] feature of the number category in Sinhalese (v.3.1.8.) as:

Of these seven formatives six have two forms each, one before ## and the other before a formative where no word boundary (##) between the two is possible. The only one not having two forms is la, which occurs in any context.

9.3.3. All these seven formatives can occur before #, but when they, except <u>la</u>, occur before certain formatives such as the case realisations <u>To</u>, <u>gen</u>, <u>en</u>, <u>in</u>, <u>wo</u>, <u>o</u>, <u>e(e)</u> etc.(v.Ch. 4) they are manifested in different other forms when compared with the six which occur before #. Let us now introduce the variant realisations for plural number in the non-word boundary context.

9.3.4. $[-sg] \longrightarrow \underline{o}$ has \underline{o} before # and \underline{an} before $T_{\overline{o}}$, gen, we, ge etc. This may be stated as:

When there is a possible # before a case realisation such as lange, gaawe etc. o and an may occur indiscriminately. Consider the following examples:

balu + o # \Rightarrow ballo # 'dogs' (v.3.1.9.)
balu +an +T \Rightarrow ballanT \Rightarrow 'to the dogs'
balu +an +gen \Rightarrow ballangen 'from the dogs'

balu + $\frac{o}{an}$ # lağgə \Rightarrow ball $\binom{o}{an}$ # lağgə 'near the dogs'

9.3.5. <u>hu</u> has <u>hu</u> and <u>hun</u> forms in the two environments. This may be stated, in a similar way to the above formulation:

hore thu # \Rightarrow horu # 'thieves'(v.3.1.9.)

hore thunted \Rightarrow horunted 'to the thieves'

hore thunted \Rightarrow horunted 'to the thieves'

hore thunted \Rightarrow horunted \Rightarrow

9.3.6. <u>i</u> has <u>i</u> and <u>in</u> forms in the two contexts. This may be formulated **as** follows:

sarəpə + i # ⇒ sarəpayi # 'serpents'(v.3.1.9.)
sarəpə + in+Tə ⇒ sarəpəyinTə 'to the serpent s'

- 9.3.7. \$\\ \phi\$ has to be explained differently. It may be treated under two sections (a) and (b).
- (a) When Ø occurs with class 3 nouns (v.9.1.5.) it has Ø and in or in a few cases un in the two environments. This may be stated with such examples as:

koTi + ∅ # ⇒ koTi # 'tigers'
koTi +in +Tə ⇒ koTinTə 'to the tigers'
harak +un+Tə ⇒ harəkunTə 'to the cattle'

koTi +
$$\binom{\emptyset}{\text{in}}$$
 # lange \Rightarrow $\binom{\text{koTi}}{\text{koTin}}$ # lange 'near the tigers'

 $\text{harak} + {\emptyset \atop \text{un}} # \text{ la\~{n}gə} \implies {\text{harak} \atop \text{harəkun}} # \text{ la\~{n}gə 'near the cattle'}$

(b) When \emptyset occurs with nouns of classes 7,9 and 10 (v.9.1.9., 9.1.11 and 9.1.12.), it has \emptyset and wal in the two contexts.

We may represent this in the following formulation:

gas + Ø # ⇒ gas # 'trees'
gas +wal +Tə ⇒ gaswəl-ə-Tə 'to the trees'
gas + Ø # langə ⇒ gas # langə 'near the trees'
*gas+ wal # langə =>*gaswal# langə. (unacceptable)

9.3.8. <u>wal</u> has <u>wal</u> and <u>walwal</u> in the two contexts. This may be stated as:

9.3.9. <u>wa has wa and wa-wal</u> in the two environments. We may formulate this as:

ee + wa # => eewa # 'those things'
ee + wawal+Tə => eewawəl-ə-Tə 'to those things'
ee +wa # langə => eewa # langə 'near those things'
*ee +wawal # langə => eewawal # langə (unacceptable)

9.3.10. It now only remains to discuss the sandhi rules which account for the phonetic representation of noun phrases in Sinha--lese. This will be done in chapters 11 and 12 and so we may conclude the chapter with a summary of the complete realisation of [-sg] feature of the number category in Sinhalese including noun classes:

```
\[
\begin{align*}
\begin{align*}
\text{an /__ Tə/gen..} \mu \\
\text{an /__ Tə/gen..} \mu \end{align*}
\]
\[
\begin{align*}
\text{hu /__ \mu \\
\text{hun /__ Tə/gen..} \mu \end{align*}
\]
\[
\begin{align*}
\text{lun /__ Tə/gen..} \mu \end{align*}
\]
\[
\begin{align*}
\text{lun /__ Tə/gen..} \mu \end{align*}
\]
\[
\text{lun /__ Tə/gen..} \m
     \{\text{wal /__#} \\ \text{walwal/__Te/in..} / " \\
\{\text{wa /__#} \\ \text{wawal /__Te/ in..} / [3P pro ] -ani ] - \\
\text{la /__#/Te/gen.../ proper N.} \\
\text{kinship N.}
                                                                                                                                                                                                                                                                                                                                                                                                                  \binom{8}{(7b)} — (v.9.1.)
                                                                                                                                                                                                                                                                                                      kinship N.
                                                                                                                                                                                                                                                                                                       status N.
                                                                                                                                                                                                                                                                                                    pronoun,
                                                                                                                                                                                                                                                                                                                                               1pronoun # [1] pro]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 [2P pro]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             +dero
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  [3P pro]
                                          For [1P pro] v. 9.2.2.
                                          For [2P pro] v. 9.2.3.
```

 $\begin{bmatrix} \mathsf{No} \\ [-\mathsf{sg}] \end{bmatrix} \longrightarrow$

CHAPTER 10

- 10.0. (THE PHONOLOGICAL) VERB
- 10.0.1. As stated earlier (v.III.3.) the phonological description of the verb in this chapter will consist of the establishment of the general syllabic structure of the verb.
- 10.0.2. Since the syllabic structure of causative verbs form-ed with the causativiser we may be included with other noncausative verbs when certain context based verb form changes are
 being explained, an attempt will first be made here to study the
 syllabic structure of the causative verb, prior to any attempt
 to study the syllabic structure of the phonological verb in
 general -- to include both causative and non-causative.

10.1. CAUSATIVE VERB

- 10.1.1. We need to discuss only those causative verbs which are formed with the introduction of the causativiser we. As far as the pure causative salasse is concerned we need merely mention that its behaviour is similar to any other verb of CVCVCCe struct-ure (v.10.2C.2.). The following are the resulting structures when causativiser we is added to different verbs to form causative verbs.
- 10.1.2. When we is added to monosyllabic verbs the result is: $(C)V \left(\left\{ \begin{smallmatrix} V \\ C \end{smallmatrix} \right\} \right) \text{ we but } * \left\{ \begin{smallmatrix} VC \\ VV \end{smallmatrix} \right\} \text{ we .}$

This includes the following structures .

<u>Vwa</u> : e.g. <u>ewa</u> 'send'

<u>kawa</u> 'feed , cause to eat'

<u>powa</u> 'feed , cause to drink'

po is a variant of bo 'drink'(v. 10.6A.3(f).

CVVwe : naawe 'cause to bathe'

CVCwe : ganwe > ganne 'cause to buy, take '

10.1.3. When \underline{w} is added to disyllabic (C)VCi verbs, the final \underline{i} is dropped before \underline{w} and the remaining (C)VC + we are joined together involving progressive assimilation between \underline{C} + \underline{w} producting -CCe (i.e. (C)VCCe) except when the (C)VCi is (C)VTi or (C)VTi . When the structure is (C)VTi or (C)VTi assimilation does not take place but the final \underline{i} is changed to shwa (e). This may be stated as:

$$(C)VC_{1}i + wa \implies (C)VC_{1}wa \implies (C)VCCa$$

$$C_{1} \neq \underline{T} \text{ or } \underline{r}.$$

(C)VTi + wə \Rightarrow (6)VTəwə

(C)Vri + wə \Longrightarrow (C)Vrəwə.

e.g.

 $\underline{\text{gili}} + \underline{\text{we}} \Rightarrow \underline{\text{gilwe}} \Rightarrow \underline{\text{gille}}$ 'cause to swallow' $\underline{\text{ari}} + \underline{\text{we}} \Rightarrow \underline{\text{arewe}}$ 'cause to open...'

- 10.1.4. However the (C)VCCə resulting from (C)VCwə is similar to any (C)VCCə disyllabic verb.(C)VCəCə from (C)VT/rəwə are now trisyllabic structures. The causative (C)VCCə can take we again as disyllabic (C)VCCə structures can take we to form (C)VCCəwə structures (see below).
- 10.1.5. When we is added to disyllabic (C)VC(C) structures, no changes take place in most cases, except when the \underline{C} immediate—
 -ly preceding the final $\underline{\bullet}$ is one of \underline{p} , \underline{b} , \underline{m} , \underline{s} or \underline{h} , and (C)VC(C) $\underline{\bullet}$ + $\underline{w}\underline{\bullet}$ are joined to form trisyllabic structures of (C)VC(C) $\underline{\bullet}$ we type. However, when the \underline{C} preceding the final $\underline{\bullet}$ is one of \underline{p} , \underline{b} ,

m, s or h, the final s is deleted before we and the structure

(C)VC + we are joined together involving progressive assimilat
-ion producing another disyllabic (C)VCCs structure. Just like
any other (C)VCCs, it can also undergo further changes till the
final syllable becomes we (i.e. (C)VCCswe) because a verb in

Sinhalese can be expanded until the final syllable is we whether

it occurs in disyllabic, trisyllabic or quadrisyllabic structures.

The final syllable we may or may not be the causativiser we. In
most cases after we no further elements other than auxiliaries
can be added. The basic summary of this section is:

$$(C)VC_{1}(C) = + w \Rightarrow \Rightarrow (C)VC_{1}(C) = w \Rightarrow$$

$$C_{1} \neq \underline{p}, \underline{b}, \underline{m}, \underline{s} \text{ or } \underline{h}$$

$$(C)VC_{2} = + w \Rightarrow \Rightarrow (C)VC_{2}w \Rightarrow \Rightarrow (C)VC_{2}C_{2} \Rightarrow$$

$$C_{2} \neq \underline{p}, \underline{b}, \underline{m}, \underline{s} \text{ or } \underline{h}$$

e.g.

kərə + wə => kərəwə 'cause to do '
allə + wə => alləwə ' " to catch'
but,

kapə + wə => kapwə => kappə 'cause to cut'

10.1.6. When we is added to verbs of (C)VCe structure, the final e is either deleted and the remaining (C)VC + we are join--ed together incurring progressive assimilation (= C + w \Rightarrow CC) or changed to e and the resulting (C)VCe +we are joined. In certain cases, however, the front vowels of the initial syllable change to the corresponding back ones. If the first syllable nucleus vowel is $\underline{\mathbf{a}}(\underline{\mathbf{a}})$, it must be changed to $\underline{\mathbf{a}}(\underline{\mathbf{a}})$ in all contexts.

cf. paade -> paadewe 'cause to become clear'

adde 'cause to pull'

If the initial syllable nucleus vowel is either $\underline{i}(\underline{i})$ or $\underline{e}(\underline{e})$ (in all CVCe structures the initial vowel nucleus is a front vowel), that $\underline{i}(\underline{i})$ or $\underline{e}(\underline{e})$ may remain unaltered even when \underline{w} is added, and therefore, one finds it difficult to arrive at a rule to account for the change of $\underline{i}(\underline{i})$ and $\underline{e}(\underline{e})$ th $\underline{u}(\underline{u})$ and $\underline{o}(\underline{o})$ respectively. With regard to \underline{i} , at least, in a particular environment, I could find some consistency of \underline{i} changing to \underline{u} when \underline{w} is added. If \underline{i} of the initial syllable is followed by \underline{p} in (C)VCe structures before \underline{w} , it is changed to \underline{u} in most (if not all) contexts. That is:

$$i \implies u / C_p ()wa.$$

e.g. pipe +wa => pupwa => puppa 'cause to open'

However, with regard to many other verbs such a consistent formation seems impossible. Consider these examples, for instance, where <u>i</u> remains unchanged in <u>ide</u> 'mellow' but changes to <u>u</u> in mide 'curdle, freeze':

ide +wə ⇒ idəwə 'cause to ripen'
ride+wə ⇒ ridəwə/riddə 'hurt'
mide+wə ⇒ mudəwə 'cause to curdle'

Similarly with regard to e's changing to o in the first syllable, ome finds it very difficult to find any consistency. In the case of pene 'see', teme 'get wet' etc., e of the first syllable remains unaltered before we :

pene +wə \Rightarrow penwə \Rightarrow pennə 'show'
teme +wə \Rightarrow teməwə 'wet, water'

However, whether or not, the front vowels of the initial syllables change to the corresponding back ones, if the structure becomes (C)VCC2 type by assimilation(e.g.penn2 'show'), then its

behaviour is similar to any other (C)VCCe structure verb. (It can take we again). A summary of the whole section may be represented as:

(a)
$$(C)V_1Ce + wa \Rightarrow \begin{cases} (C)V_2Cwa \Rightarrow (C)V_2CCa \\ (C)V_2Cawa \end{cases}$$

$$V_1 = x(x); V_2 = a(a).$$

(b)
$$(C)V_1pe + wa \Rightarrow (C)V_2pwa \Longrightarrow (C)V_2ppa$$

 $V_1 = i(i) ; V_2 = u(u).$

(c)
$$(C)V_1Ce + wa \Rightarrow \begin{cases} (C)V_2Cwa \Rightarrow (C)V_2CCa \\ (C)V_2Cawa \end{cases}$$

$$V_1 = i(i), e(e); V_2 = i(i), e(e), u(u), o(o).$$

e.g.

- (a) wæTe +we ⇒ waTwe ⇒ waTTe 'cause to fall'

 æle + we ⇒ alewe 'cause to stick'
- (b) pipe + wə ⇒ pupwə ⇒ puppə 'cause to open(a flower)
- (c) pene + wə ⇒ penwə ⇒ penmə 'show'
 mide + wə ⇒ mudəwə 'cause to curdle'
- 10.1.7. When we is added to a trisyllabic (C)VCVCi structure, the final i drops before we and the remaining (C)VCVC+we are joined to produce a (C)VCVCCe structure (cf. 10.1.3.also), which behaves like any other (C)VCVCCe structure verb. This may be formulated as:

$$(C)VCVCi + wə $\Longrightarrow (C)VCVC+wə \Longrightarrow (C)VCVCCe$
e.g.$$

mwidi + wə => mwid+wə => mwiddə 'cause to walk'

10.1.8. When we is added to a trisyllabic (C)VC(C)V(V)C(C)

structure no changes take place and the two are joined together to result a (C)VC(C)V(V)C(C) awa structure. That is:

 $(C)VC(C)V(V)C(C) + wa \implies (C)VC(C)V(V)C(C)awa$ e.g.

kalatta + wa => kalattawa 'cause to stir'

10.1.9. When we is added to a trisyllabic (C)VCVCe structure, in some cases, the final is deleted and the remaining (C)VCVC and we are joined to produce a (C)VCVCCe structure. However, there are problems and it must be stated that the (C)VCVCe structures to which causativiser we can be added are very few; and there are verbs to which we can not be added at all. Moreover, alongside verbs of (C)VCVCe structure, there are (C)VCVCi structure verbs which are syntactically and semantically the same. In such cases we is added to (C)VCVCi structures to produce a (C)VCVCCe structure which then behaves similarly to any other trisyllabic structure of the same type.

However, when we can be added to (C)VCVCe structures as in hinshe 'laugh', the front vowels of the first and the second syllables are sometimes changed to the corresponding back ones.

Thus hinshe + we produce

*hinæh+wə => *hinah+wə => hinaswa => hinaswa =>

(C)VCVCe verbs are comparatively few in number in Sinhalese. It is fairly difficult to make a precise generalised statement about causative verb formation of these verbs, for a number of reasons, e.g.:

- (a) With regard to some verbs like <u>delehe</u> 'hesitate', <u>gilihe</u>

 'become unfix', <u>pirihe</u> 'decline', <u>wætire</u> 'lie prone',

 <u>wælənde</u> 'get (a disease)', <u>wæhære</u> 'emaciate' etc, <u>wə</u>

 causativiser is unproductive and causative verbs from these

 verbs are not found in the language.
- (b) With regard to some verbs such as <u>pærəde</u> 'be defeated',

 <u>wæləke</u> 'refrain', <u>wæləpe</u> 'lament', <u>ipəde</u> 'be born', <u>wærəde</u>

 'mistake' etc., there exist syntactically and semantically

 identical but phonologically different verbs such as <u>parədi</u>

 'be defeated', <u>waləki</u> 'refrain', <u>waləpi</u> 'lament', <u>upədi</u>

 'be born' and <u>warədi</u> 'mistake' respectively. In forming

 causative verbs, the causativiser <u>wə</u> is added to the latter

 forms and not the former.
- (c) With regard to some verbs such as waTehe'understand', wisire 'scatter', wehese 'strive' etc., when we is added the final e is changed to e and the two formatives are joined together. Here too e of the first syllable of waTehe changes to a (cf. 10.1.6.). We may summarise this section thus to include only the possible structures:

((C)VCVCi : v. 10.1.7.).

$$V_1 = \text{front vowels}$$

 $V_2 = \text{front or back vowels}$
 $V_1 = x_2 V_2 = a$.

hinæhe + wə \Rightarrow *hinahwə \Rightarrow hinassə 'cause to laugh'
wæTəhe + wə \Rightarrow waTəhəwə (= waTahawə) 'cause to under-stand '

10.1.10. There are no quadri-syllabic structures where \underline{w} can be added to form causative verbs. All quadri-syllabic verbs in the language have \underline{w} as the final syllable after which no more \underline{w} causativisers can be added. Thus the quadri-syllabic structures are always of (C)VC(C)V(V)C(C) and structure.

10.1.11. As: a conclusion to this section, it may be mentioned that all causative verbs discussed above follow a pattern simil--ar to that of many .. Ca final verbs in terms of the changes they are subject to in various contexts, notably before auxil--iary realisations. Thus one need not treat causative verbs independently of non-causative ... Co verbs in discussing the different phonological shapes -- allomorphs -- of verbs, as they all follow the same pattern so long as they are ... Ca final verbs. I do not differentiate between the syllabic structure of causative verbs and that of non-causative ... Ca final verbs in the following section, where I propose to introduce different possible syllable structures of the verb in Sinhalese. Complex verbs are excluded from this study, for they should be discussed under derivation, which is beyond our present scope. However, complex verbs do not pose any problems because all of them can be described by the use of the discussions of non-complex verbs, as all complex verbs have a dependent verb as the final member. which is always one of the non-complex verbs, and it is only these dependent verbs that undergo changes, the same as those they undergo when independent, and the preceding elements remain constant always.

10.2. SYLLABIC STRUCTURE OF THE VERB IN SINHALESE

10.2.1. The verb in relation to its phonological form can be stated in terms of syllabic structures. To describe the simple and the causative verbs (v.10.1.) I propose to recognise four broad classes of syllabic structures:

i monosyllabic structure verbs

ii disyllabic structure verbs

iii trisyllabic structure verbs and

iv quadri-syllabic structure verbs.

These structures will be fully explained in the following sections.

10.2A. MONOSYLLABIC STRUCTURE VERBS

10.2A.1. All monosyllabic structure verbs may be stated as (C)V ($\left\{\begin{smallmatrix}V\\C\end{smallmatrix}\right\}$) but \neq V $\left\{\begin{smallmatrix}V\\C\end{smallmatrix}\right\}$.

This formulation includes the following four structures:

i V

ii C₹

iii CVV

iv CVC

There are not many verbs belonging to each of these four structures. They are introduced in the following paragraphs:

10.24.2. There is just one verb in the whole language which has the structure \underline{V} , and that is:

V : e 'come'

10.2A.3. One may list several verbs that have the structure <u>CV</u> as given below. (The eight most common, perhaps, are given here.)

cv : ka 'eat' da 'burn'
de 'give' bo 'drink'
ya 'go' re 'evacuate the bowels'
la 'put,place' we 'become, be'

10.24.4. The verbs that have the CVV structure include the following:

CVV : gaa 'smear...' naa 'bathe'

paa 'exhibit' haa 'plough'

baa 'lower.unload'.

One may include some verbs, which in fact are contracted verbs from disyllabic (or even complex) verbs, such as:

daa < dame 'put, place'
doo < dowe 'milk'
pee < pene 'see'
loo < lowi/lowe 'lick' and
gee < gene (gene + e) 'bring'</pre>

10.2A.5. There are just two verbs which have a partial CVC structure, partial because in certain contexts they appear in their original disyllabic structure CVCi. However, dan is formal—ly a defective verb.

CVC : gan 'take, buy' dan 'know'

10.2B. <u>DISYLLABIC STRUCTURE VERBS</u>

10.2B.1. Disyllabic structure verbs may be stated in terms of three sub classes such as:

- i (C)V(V)C(C) but $\neq VVCC$
- ii (C)V(V)Ci but $\neq VVCi$ and
- iii (C)V(V)C(C)e but \neq VVCCe.

10.2B.2. The sub class i, (C)V(V)C(C) includes the following structures. I have given one example for each of these structures, where ver possible, against the particular structure:

(C)V(V)C(C) but \neq VVCCə. i VCa ane 'knead' CVCa kapa 'cut' **VVCa** eeda 'mix (in cooking)' **CVVC**ə suura 'scratch' VCCa alla 'seize, catch' : CVCCə pucce 'bake, burn' :

CVVCCo : yaallo 'measure (grain)'

*VVCCe : ? (unacceptable)

10.2B.3. The sub class ii, (C)∇(∇)Ci includes the following few structures:

ii (C)V(V)Ci but ≠ VVCi

VCi : ani 'prick, sting, stab'

CVCi : gani 'count'

CVVCi : paahi 'polish grain(by pounding),

lop off (branches)'

*VVCi : ?(unacceptable)

10.2B.4. The sub class iii, (C)V(V)C(C)e consists of the follow--ing structures:

iii (C)V(V)C(C)ebut ≠ VVCCe. **VCe** whe 'hear' **CVCe** wæTe 'fall' **VCCe** elle 'hang down' **CVCCe** pædde 'swing to and fro, oscillate' : **CVVCe** weele 'become dry, wither' : **VVCe** æænde 'become linked' **CVVCCe** : pææsse 'become welded' *VVCCe ? (unacceptable)

```
10.2C. TRIZSYLLABIC STRUCTURE VERBS
```

10.20.1. Trisyllabic structure verbs too can be stated in relation to three sub classes such as:

- i (C)V(V)C(C)V(V)C(C) but \neq (C)V(V)CCVVC(C) a
- ii (C)VCVCi and

*CVVCCVVCCa

iii (C)VCV(V)C(C)e but \neq (C)VCVVCCe.

10.2C.2. The sub class $i_*(C)V(V)C(C)V(V)C(C)$ includes the following structures:

```
i (C)V(V)C(C)V(V)C(C) but \neq (C)V(V)CCVVC(C).
```

```
VCVCa
                  uhula 'sustain'
              : galapa ' join, link'
CVCVCə
                   eedawa 'cause to mix'
VVCVCə
              :
                   weelawa ' "
                                 to dry
CVVCVCə
              :
                             " to seize'
                    allawa '
VCCVCə
CVCCVCa
                    passawa ' " to ripen'
              :
              : ewesasawa ! "
CVVCCVCə
                                  to weld'
VCVCCə
                    awussa 'stir up, exasperate'
              :
CVCVCCa
                    pawatta 'held, maintain'
              :
                   kakaara 'decoct'
CVCVVCə
              :
                   assadda 'till, cultivate'
VCCVCCa
              :
VCVVCə
              :
CVCCVCCa
VVCCVCa
              :
VVCVCCa
              :
CVVCVCO
              :
*VCCVVCə
              :
*VVCCVVCa
              :
                   (unacceptable )
*CVCCVVCə
*CVVCCVVCə
              :
*VCCVVCCa
              :
*VVCCVVCCə
              :
*CVCCVVCCa
              :
```

10.20.3. The sub class ii, (C)VCVCi consists of the following two structures:

ii (C)VCVCi

VCVCi : æwidi 'walk'

CVCVCi : nægiTi 'arise, wake'

10.20.4. The sub class iii, (C)VCV(V)C(C)e represents the structures exemplified below:

iii (C)VCV(V)C(C)e but \neq (C)VCVVCCe.

VCVCCe : awisse 'become roused, become

irritated'

CVCVCCe : kælætte 'become stirred up'

CVCVVCe : kækæære 'become decocted'

VCVVCe : ?

*VCVVCCe : ? (unacceptable)

*CVCVVCCe :

10.2D. QUADRI-SYLLABIC STRUCTURE VERBS

10.2D.1. There is just one class of quadri-syllabic structure verbs and that may be stated as follows:

(C)VC(C)V(V)C(C) awa but \neq (C)VCCVVC(C) awa.

This includes the structures specified below:

(C)VC(C)V(V)C(C) awa BUT \neq (C)VCCVVC(C) awa.

VCVCəwə : ahurəwə 'cause to pack'

CVCVCewe : karekewe 'spin, make revolve'

CVCVVCawa : kakaarawa 'cause to decoct'

VCVCCawa : awussawa 'provoke, cause to stir up'

CVCVCCewe : kalattewe 'cause to stir'

VCCVCCewe : assaddewe 'cause to till or

cultivate'

VCVVCəwə : ?

```
CVCCVCCewe : ?

CVCCVCewe : ?

*VCCVVCewe : }

*CVCCVVCewe : (unacceptable)

*CVCCVVCewe : *

*CVCCVVCewe : *
```

Having stated the different syllabic structures of the verb in Sinhalese in general, let us next concentrate upon their different possible vowel nuclei.

10.3. <u>VOWEL NUCLEI OF DIFFERENT SYLLABLES OF THE VERB</u>

10.3.1. Every syllable, open (i.e.(C)V(V)) or closed (i.e.

(C)V(V)C) must have a nucleus vowel. In Sinhalese, monosyllabic verb structures consist of the following vowels as their nuclei vowels:

```
(C)V: e; e.g. e 'come' (cf. 10.2A.2.)
                   de 'give' (cf. 10.2A.3.)
                   re 'evacuate the bowels'
                  da 'burn'
                   ka 'eat' (cf.10.2A.3.)
                   bo 'drink'( ")
        <u>o</u> ;
CVV : aa ; e.g. naa 'bathe'
                   paa 'exhibit' (cf.10.2A.4.)
        (00);
                  loo 'lick'
        (ee);
                pee 'see' (cf.10.2A.4.)
CVC :
                   gan 'take' (cf. 10.2A.5.)
        a ;
                   dan 'know'
```

10.3.2. Next, let us state vowel nuclei of syllables in relation to disyllabic, trisyllabic and quadrisyllabic structures.

Not all fourteen vowels in Sinhalese (v.III.6, Table 1) occur
in all syllables and we must, therefore, state which occur in
the first syllable of disyllabic structures, which occur in the
first and second syllables of trisyllabic structures and which
in first, second and third syllables of quadrisyllabic structures.

10.3.3. All disyllabic verbs have either $\underline{\mathbf{a}}$, $\underline{\mathbf{i}}$ or $\underline{\mathbf{e}}$ as the nucleus vowel of the second syllable. Therefore, we can state the vowels that occur as syllable nuclei of the first syllable in relation to the three nuclei vowels of the second syllable. If the second syllable has the nucleus vowel $\underline{\mathbf{a}}$, then the first may have $\underline{\mathbf{a}}$, $\underline{\mathbf{aa}}$, $\underline{\mathbf{i}}$, $\underline{\mathbf{ii}}$, $\underline{\mathbf{u}}$, $\underline{\mathbf{uu}}$, $\underline{\mathbf{e}}$, $\underline{\mathbf{ee}}$, $\underline{\mathbf{o}}$, $\underline{\mathbf{oo}}$, $(\underline{\mathbf{a}})$ and $(\underline{\mathbf{a}})$. This may be represented as:

If the second syllable consists of <u>i</u> as its nucleus vowel, the first may consist of <u>a</u>, <u>aa</u>, <u>i</u>, <u>uu</u>, <u>e</u> and <u>o</u>. We may state this as:

When the second syllable nucleus vowel is \underline{e} , the first may have \underline{w} , \underline{w} , \underline{e} , \underline{e} , \underline{e} , \underline{i} and \underline{i} . That is:

^{1 22} does not occur; 2 too occurs in one verb kere 'do'.

^{2 &}lt;u>****</u> is not attested; *** too occurs in a very few cases such as k***mdə 'call'

³ ii, ee and oo are not attested.

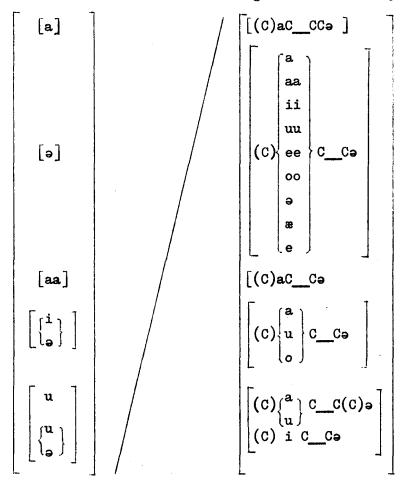
10.3.4. Just as disyllabic structures, the trisyllabic structures too have either $\underline{\bullet}$, \underline{i} or \underline{e} as the nucleus vowel of the final syllable, namely the third. Thus we may state the nuclei vowels of the first and the second in relation to the third. If the third syllable consists of $\underline{\bullet}$ the first may consist of $\underline{\bullet}$, aa, \underline{i} , \underline{ii} , \underline{e} , \underline{e} , \underline{e} , \underline{o} , \underline{o} , \underline{u} , \underline{u} , $\underline{(\bullet)}$ and $\underline{(\bullet)}$. We may state this as:

If the third syllable nucleus is \underline{i} , then the first may be \underline{x} or \underline{a} . That is:

When the third syllable has $\underline{\underline{u}}$ as its nucleus vowel, the first may have $\underline{\underline{i}}$, $\underline{\underline{e}}$ or $\underline{\underline{m}}$. That is:

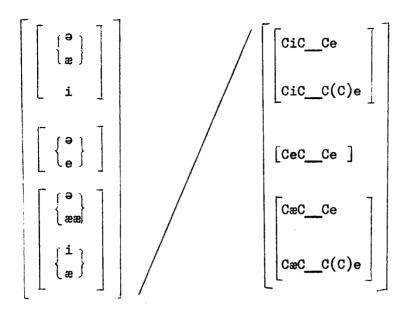
10.3.5. Next, let us state the nuclei vowels that occur in the second syllable. When the third nucleus vowel is $\underline{\underline{\bullet}}$ and the first is one of $\underline{\underline{a}}$, $\underline{\underline{aa}}$, $\underline{\underline{i}}$, $\underline{\underline{ii}}$, $\underline{\underline{e}}$, $\underline{\underline{ee}}$, $\underline{\underline{o}}$, $\underline{\underline{oo}}$, $\underline{\underline{uu}}$, $(\underline{\underline{\bullet}})$ and $(\underline{\underline{w}})$, the second may have one of $\underline{\underline{\bullet}}$, $\underline{\underline{aa}}$, $\underline{\underline{u}}$ and $\underline{\underline{i}}$. However, there are limitations. For instance, when the first syllable has a long vowel as its nucleus, the second is usually $\underline{\underline{\bullet}}$. These facts

must be studied in greater detail in a thoroughgoing study of phonology. Tentatively, I suggest the following formulation in accordance with the data I have gathered for analysis.

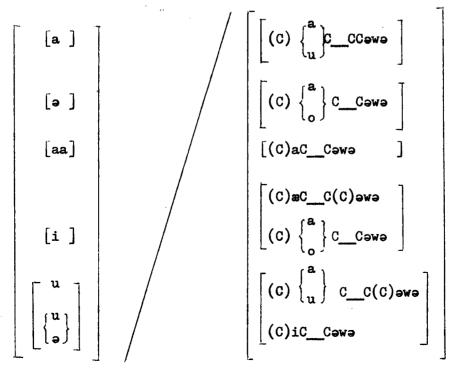


When the third syllable vowel nucleus is \underline{i} and the first is one of \underline{a} and \underline{a} , the second may consist of \underline{i} or \underline{a} . This may be stated to include different combinations as well, as follows:

When the vowel nucleus of the third syllable is \underline{e} and of the first is one of \underline{i} , \underline{e} or \underline{z} , one of \underline{a} , \underline{z} , \underline{z} , \underline{z} , \underline{i} or \underline{e} may be the second vowel nucleus. We may represent the different combinations of syllables as follows:



10.3.6. All quadri-syllabic verbs have $\underline{\underline{a}}$ as the nucleus vowel of the final syllable. Actually the final syllable is $\underline{\underline{w}}$ preced--ed by a syllable with a $\underline{\underline{a}}$ vowel nucleus. Thus we can state the vowel nuclei of first and second syllables taking into account the third and fourth. When the third and the fourth syllables are ... Cawa the first may consist of one of $\underline{\underline{a}}$, $\underline{\underline{i}}$, $\underline{\underline{o}}$, $\underline{\underline{u}}$ and $\underline{\underline{x}}$. The second may have one of $\underline{\underline{a}}$, $\underline{\underline{a}}$, $\underline{\underline{u}}$ and $\underline{\underline{i}}$ (cf. the second syllable of trisyllabic structures, 10.3.5.).



10.3.7. Having stated the different vowel nuclei of different syllables of verbs, let us now discuss an important process called back to front vowel change.

10.4. BACK TO FRONT VOWEL CHANGE

10.4.1. Verms are combined with the auxiliary realisations in the phonological structure. When this takes place, the final vowels <u>a,i,e</u> of disyllabic, trisyllabic and quadrisyllabic verbs undergo changes -- such as, deletion or vowel change -- in certain contexts -- i.e. before certain auxiliary realisations. Simultaneously, sometimes, the syllabic nuclei vowels, if they are back vowels only, change to their corresponding front vowels. This sort of vowel change from back vowels to front ones is discussed in the following sections.

10.4.2. Monosyllabic verbs must be treated separately as some of them show irregular characteristics. However, some back vowels of monosyllabic verbs, especially those with <u>a</u>, <u>aa</u> and (<u>oo</u>) as the syllable nuclei vowels, also change to their corresponding front ones, however <u>a</u> changes to a long <u>ww</u>. Thus the change of back vowels of some of the monosyllabic verbs may be stated as:

$$\begin{bmatrix} cv_1(v)_1 \\ a \\ aa \\ oo \end{bmatrix} \implies \begin{bmatrix} cv_2v_2 \\ aa \\ ee \end{bmatrix} / - \begin{bmatrix} certain Aux.^1 \\ nominalisers (v.App.C) \end{bmatrix}$$

¹ Different contexts where back vowels change to front ones etc., will be introduced later in the section on allomorphic variation of verbs (... see 10.6.).

10.4.3. With regard to disyllabic verbs, the back vowels of the first syllable, namely <u>a</u>, <u>aa</u>, <u>o</u>, <u>oo</u>, <u>u</u> and <u>uu</u> as well as the mid central vowel <u>a</u> are changed to <u>w</u>, <u>ww</u>, <u>e</u>, <u>ee</u>, <u>i</u>, <u>ii</u> and <u>e</u> respectively when the particular auxiliary realisations that will be specified later (v.10.6.), are combined with them.

Thus we may state:

$$(C)V_1(V)_1C(C)\Rightarrow (C)V_2(V)_2C(C)()$$
 /__ccertain Aux. nominalisers
$$V_1 = \text{back vowels or } \underline{\bullet}$$

$$V_2 = \text{front vowels.}$$

10.4.4. As far as trisyllabic and quadrisyllabic structures are also concerned, the change of back vowels to the front ones of the initial syllable is similar to that given above. All back vowels, long or short, are changed to their corresponding front ones in most cases. If the second syllable also consists of a back vowel but not <u>a</u> before <u>wa</u>, then that too is changed to the corresponding front one. <u>a</u> before <u>wa</u> whether in the second or third syllable is always changed to <u>e</u>. However, <u>a</u> in the second syllable but not before <u>wa</u> remains unchanged. We may formulate this as:

$$\begin{array}{c} \operatorname{CV}_1(V)_1 \left\{ \begin{array}{c} \operatorname{CV}_1(V)_1 \operatorname{Ce} \\ \operatorname{CV}_1(V)_1 \operatorname{Cewe} \end{array} \right\} & \Rightarrow & \operatorname{CV}_2(V)_2 \left\{ \begin{array}{c} \operatorname{CV}_2(V)_2 \operatorname{C}() \\ \operatorname{CV}_2(V)_2 \operatorname{ew}() \end{array} \right\} / \underbrace{- \left\{ \begin{array}{c} \operatorname{certain} \\ \operatorname{Aux.} \end{array} \right\}}_{\text{nom.}}$$

 V_1 = back vowels or $\underline{\underline{}}$ in syllable 1. V_2 = front vowels.

10.4.5. However, there are a few verbs where back vowels do

¹ see fn. 1, p.239.

not change to front ones even in the contexts where they should do so. Consider the following verbs and their 'word forms' when non-past indicative and past indicative auxiliary realisations are added:

budiyə 'sleep' : budiyə + nə +(w)aa(i.e.npt. Ind. v.8.5.2.

[budiyənəwa]'sleep' and 8.5.4.)

: budiyə + wə + aa (i.e.pt.Ind. v.8.5.2.and

8.5.7.)

[budiyææwa] 'slept'

kakiyə 'ache' : kakiyə + nə + (w)aa

[kakiyənəwa] 'ache'

: kakiyə +wə +aa

[kakiyææwa] 'ached '

The following two verbs , <u>naliya</u> 'wriggle' and <u>popiya</u> 'quiver, tingle' also belong to this special class of verbs.

10.4.6. In all cases front vowel nuclei of syllables remain unchanged when these auxiliary realisations are added to the verbs containing them.

10.5. REDUPLICATION OF VERBS

10.5.1. Verbs in Sinhalese are reduplicated to perform different syntactic and semantic functions (cf. progressive aspect of the auxiliary, 8.5.5.;8.5.9.). When verbs of different syllabic structures undergo the process of reduplication the resulting reduplicated structures are as follows:

10.5A. REDUPLICATION OF MONOSYLLABIC STRUCTURE VERBS

10.5A.1. Monosyllabic verbs are reduplicated as suggested below

either in relation to different monosyllabic structures or special monosyllabic verbs within different structures.

10.5A.2. CVV + reduplication \implies CV CVV.

e.g. naa 'bathe' : na naa .

All CVV verbs follow this pattern.

10.5A.3. $CV + reduplication \Rightarrow CV CVV$.

We have to distinguish four sub classes of verbs within this structure as:

- i ka 'eat' : ka kaa.

 Verbs <u>ka</u> 'eat', <u>da</u> 'burn', <u>la</u> 'put' belong to this sub class.
- ii de 'give' : di dii .

 Verbs <u>re</u> 'evacuate the bowels', <u>bo</u> 'drink' also belong to this sub class.
- iii we 'become, be': we wii.

 This is the only verb of this sub class.
- iv ya 'go' : ? (ya yaa ; then sub class i above)

 I am not familiar with the reduplicat-ed forms of ya as ya yaa, which exist
 neither in my own usage nor in that
 of my dialect area. The same is true
 for e 'come' which has no reduplicat-ed forms like e ee or i ii (?).
- 10.5A.4. CVC + Redup. => CVCe CVCe (cf. CVCi in 10.5B.2. in.).

 e.g. gan 'take' : gene gene

 dan 'know' : dæne dæne .

 There are no more verbs of this sub class.

10.5B. REDUPLICATION OF DISYLLABIC STRUCTURE VERBS

10.5B.1. Disyllabic structures have the following reduplicated structures:

 $(C)VC \Rightarrow + Redup. \Rightarrow (C)VC \Rightarrow (C)VC \Rightarrow .$

e.g. kapə 'cut' : kapə kapə.

All possible (C)V(V)C(C) verbs (v.10.2B.2.) follow this pattern.

10.5B.2. (C)V(V)Ci + Redup. \implies (C)V(V)Cə (C)V(V)Cə (\implies £10.5A.4.) e.g. ari 'send ' : \implies \implies \implies

paahi 'polish grain' : pææhə pææhə.

(Back vowels are changed to front ones when final is changed to in the process of reduplication)

All possible (C)V(V)Ci (v.10.2B.3.) follow this pattern.

- 10.5B.3. (C)V(V)C(C)e + Redup. ⇒ (C)V(V)C(C)i (C)V(V)C(C)i.

 e.g. wæTe 'fall' : wæTi wæTi.

 weele 'dry up' : weeli weeli.
 - All possible (C)V(V)C(C)e verbs (v.10.2B.4.) follow this pattern.
- 10.5C. REDUPLICATION OF TRISYLLABIC STRUCTURE VERBS
- 10.5C.1. Trisyllabic verbs are reduplicated as follows:

 (V)

 (C) $V(C)V(V)C(C) \Rightarrow + Redup. \Rightarrow (C)V(V)C(C)V(V)C(C) \Rightarrow (C)V(V)C(C)V(V)C(C) \Rightarrow$
 - e.g. akula 'fold' : akula akula.

pawatta 'hold' : pawatta pawatta.

All possible (C)V(V)C(C)V(V)C(C) verbs(v.10.2C.2.) follow this pattern.

- 10.5C.2. (C)VCVCi + Redup. ⇒ (C)VCVCə (C)VCVCə.
 e.g. æwidi 'walk' : æwidə æwidə.
 - All (C)VCVCi verbs (v.10.2C.3.) follow this pattern.
- 10.5C.3. (C)VCV(V)C(C)e + Redup. ⇒ (C)VCV(V)C(C)i (C)VCV(V)C(C)i.

 e.g. hinæhe 'laugh' : hinæhi hinæhi.

 All possible (C)VCV(V)C(C)e verbs (v.10.2C.4.) follow this pattern.
- 10.5D. REDUPLICATION OF QUADRISYLLABIC STRUCTURE VERBS
 10.5D.1. Quadrisyllabic structure verbs are reduplicated as follows:
 - $(C)VC(C)V(V)C(C) = Redup. \Rightarrow (C)VC(C)V(V)C(C) = (C)VC(C)V(C)C = (C)VC(C)C =$
 - e.g. hinassawa 'cause to laugh':
 hinassawa hinassawa.
 - assaddawa 'cause to till' :
 - assaddawa assaddawa .
 - All possible (C)VC(C)V(V)C(C) awa verbs (V.10.2D.1.) follow the same pattern.
- 10.5.2. Having discussed the reduplication of verbs in Sinha--lese, let us next examine the verbs and their alternation -allomorphic variation.
- 10.6. ALLOMORPHIC VARIATION OF THE VERB
- 10.6.1. Verbs undergo certain changes when they are combined with certain auxiliary realisations. I propose to state allo-morphic variation of verbs of different syllabic structure in

relation to certain contexts, which are auxiliary realisations.

10.6A. ALLOMORPHIC VARIATION OF MONOSYLLABIC STRUCTURE VERBS

10.6A.1. We have to state allomorphic variation of monosyllabic verbs in some length as these verbs belong to a number of sub classes -- i.e. V, CV, CVV, CVC structures. Sometimes even with--in a single class (v. CV in 10.5A.3.) we find verbs following different patterns. I therefore state allomorphs of verbs in relation to syllabic structures.

10.6A.2. <u>V structure verbs</u>: There is just one verb <u>e</u> 'come' which has this structure in Sinhalese. Its variation may be stated as suggested:

10.6A.3. CV structure verbs: We have to recognise a number of sub classes within this CV structure verbs. Allomorphic variation of CV verbs are therefore stated in relation to these sub classes of verbs, as suggested in the following sections.

Verbs of this class are ka'eat', da 'burn' and la 'put'.

(b) ya 'go' is a special verb of CV structure verbs.

(c) de 'give' is another special verb of CV structure verbs in Sinhalese.

¹ da 'burn' is a process verb, and therefore Imp. Aux. such as pan, piye, \$\omega\$, nne, newa, nnan, mu ..etc. do not occur with it. Hence *daapan, *daapiye, *daa, *danne, *danewa, *dannan and *damu are impossible in the sense of burning. However, daapan, daapiye, dame etc. from daa (dame 'put') (v.10.2A,4.) should not be confused with da 'burn'.

However, compare the existing partial similarity between de and re and bo (cf. (d) and (f) in.).

(d) <u>re</u> 'evacuate the bowels' is another special verb of CV structure verbs.

Compare also the partial similarity between \underline{re} and \underline{bo} (cf. (f) in.) and also \underline{de} (cf.(c)sup.).

(e) we'become, be' is also another special verb of CV structure verbs.

we
$$\Longrightarrow$$

$$\begin{cases}
(w)u / \underline{n} = 0 \\
we / \underline{elsewhere}$$

¹ run instead of rii is found in certain dialects.

(f) bo 'drink' is also another special verb of CV structure verbs.

10.6A.4. CVV structure verbs: Here too we need to recognise a number of sub classes of CVV verbs especially to account for the allomorphic variation of CVV verbs which are actually the result of contraction of disyllabic or complex structures (v. 10.2A.4.). CVV verbs which are not the result of any contract—ion of some underlying structure can be stated as (a) and the other contracted verbs as (b),(c) and (d) below.

Verbs that belong to this sub class are , gaa 'smear',

naa 'bathe', paa 'exhibit', baa 'unload' and haa 'plough'

(v.10.2A.4. also) (daa dama 'put' also follows the same
pattern).

¹ bun instead of bii is found in certain dialects.

(b) loo 'lick' may be stated as:

doo 'milk' is another verb that belongs to this class.

(c) pee 'see' may be stated as:

There are no other verbs of this class(cf. 10.68.3.).

(d) gee 'gene 'bring' is a complex verb consisting of gene+e.

However, its allomorphic variation may be stated as:

¹ It must be clear from these forms that this is not a monosylla--bic verb (cf. 10.2A.4.).

² genaa is from gene+aa e 'come'(v. aa e ,10.6A.2). Forms like genaa, gene show that this too is not a monosyllabic verb (cf. 10.2A.4.).

10.6A.5. <u>CVC</u> <u>structure</u> <u>verbs</u>: There are two CVC verbs but they belong to two sub classes as given below: <u>gan</u> 'take' and dan 'know' are the two verbs.

(cf. CVCi alternation in 10.6B.2.)

¹ This shows that gan has actually resulted from a CVCi (gani) verh (v.10.2A.5.). It has preserved its disyllabic character here before these auxiliary forms.

² dan too has resulted from a CVCi(dani) verb; however, it has evolved into a complex verb, as shown here.

10.6A.6. There is one more verb, which is partly monosyllabic and partly disyllabic, to be introduced. I believe that it must be treated as a CVCi structure verb, but in certain 'word forms' it appears as a monosyllabic structure verb. However, since this verb <u>indi</u> [in] 'be' shows some monosyllabic structures, I shall state here its allomorphic variation.

VC / VCi structure verb, indi [in] 'be'.

(cf.(C)VCi allomorphic variation in 10.6B.2.)

10.6B. ALLOMORPHIC VARIATION OF DISYLLABIC STRUCTURE VERBS 10.6B.1. We may state allomorphic variation of disyllabic structure verbs in relation to the three possible disyllabic structures. Thus (C)V(V)C(C) structure verbs and their allomorphic variation may be stated as:

$$(C)V_{1}(V)_{1}C(C) \Rightarrow \Longrightarrow \begin{cases} (C)V_{2}(V)_{2}\mathbf{G}(C)u / \underline{\hspace{1cm}} w \Rightarrow \\ (C)V_{1}(V)_{1}C(C) \Rightarrow / \underline{\hspace{1cm}} \text{elsewhere} \end{cases}$$

V₁ = back or front vowels

V₂ = front vowel(of the corresponding back vowel of the basic structure).

There are many verbs that belong to this structure verb class. Some of them are given below. However, there are a few process verbs having (C)V(V)C(C) structure but these do not have Imp. Aux. like pan, piyə, \emptyset , mu, mnan, mnə etc. Neverthe-less, pan and piyə may occur as benedictive mood Aux. (cf.8.7.). (C)V(V)C(C) verbs:

aNDa 'cry' ana 'mix' aha 'ask' alla 'seize' ira 'saw, tear' uvə 'cook' eeda 'mix (in cooking)' ussa 'raise' kere 'do' gaha 'beat, hit' naTe 'dance' duwa 'run' piire 'comb' haare 'dig' naawa 'bathe' kawa 'feed' etc.

Process verbs:

unə 'ooze' poğgə 'soak'
galə 'fhow' moorə 'ripen, mature'
etc.

10.6B.2. The allomorphic variation of (C)V(V)Ci verbs may be stated as:

$$(c)v_{2}(v)_{2}c_{1} / \underline{\hspace{1cm}} wa$$

$$c_{1} \neq T, r.$$

$$(c)v_{2}(v)_{2}c_{2}i / \underline{\hspace{1cm}} ya$$

$$c_{2} = T, r.$$

$$(c)v_{2}(v)_{2}ca / \underline{\hspace{1cm}} pan$$

$$piya$$

$$pi$$

$$pu$$

$$la$$

$$u$$

$$(c)v_{1}(v)_{1}ci / \underline{\hspace{1cm}} elsewhere.$$

$$v_{1} = front \ or \ back \ vowels.$$

$$v_{2}^{1} = front \ vowel \ of \ the \ correspond-ing \ back \ ones \ of \ the \ base \ structure.$$

Some of the verbs that follow this pattern are:

(C)V(V)Ci verbs:

etc.

adi 'pull'

ari 'send, open'

gili 'swallow'

pani 'jump, leap'

badi 'fry, roast'

mani 'measure'

wandi 'bow, worship'

andi 'draw, wear '

imbi 'draw, wear '

imbi 'kiss, smell'

pani 'climb'

bani 'abuse'

bindi 'break, crack'

raki 'guard'

widi 'pierc e , shoot an arrow'

10.6B.3. The allomorphic variation of (C)V(V)C(C)e verbs may be introduced as follows:

$$\begin{array}{c} (C)V(V)C(C)u & /_ n =_2 \\ \\ (C)V(V)C(C)i & /_ \begin{cases} cci/e \\ yan \\ ye \\ la \end{cases} \\ \\ (C)V(V)C(C)e & /_ elsewhere. \end{array}$$

A few verbs of this class are listed below: (Imp. Aux. pan, piyə, \underline{u} , $\underline{\emptyset}$ do not occur with these verbs even when they are used to denote volitive actions; instead \underline{van} , \underline{ve} , \underline{newa} , \underline{nnewa} may occur.)

(C)V(V)C(C)e verbs:

whe 'stick' ide 'ripen, mellow' kipe 'be angry' pahe 'ripen, boil, ferment' pipe 'open (as flowers)' pene 'see, appear, seem' mare 'die, expire' ride 'hurt, ache' wate 'fall' wabe 'grow, develop, increase' wate 'strike' hare 'turn' helle 'shake' etc.

10.6C. ALLOMORPHIC VARIATION OF TRISYLLABIC STRUCTURE VERBS 10.6C.1. Here too the statement is very similar to that given for disyllabic structures. By taking into account the three basic structures (i.e. \underline{a} , \underline{i} and \underline{e} final), we may state the possible verb alternation as suggested below. Alternation in relation to (C)V(V)C(C)V(V)C(C) is as follows:

 V_1 = back or front vowels

V₂ = front vowels (of the corresponding back

vowels of the basic structure)

 $V_3 =$ front vowels or $\underline{\bullet}$ if the basic structure $V_1 = \underline{\bullet}$ but not followed by \underline{w} .

A few verbs that belong to this class are listed here:

akulə 'roll up, fold' apullə 'wash clothes'
ugullə 'root up, pull out' tawərə 'smear'
naggəwə 'cause to climb' puppəwə 'cause to open '
pulussə 'burn, bake' bindəwə 'cause to break'
marəwə 'cause to kill' wapurə 'sew'
wikunə 'sell' sarəsə 'decorate'
salassə 'cause' etc.

10.6C.2. Allomorphic variation of (C) VCVCi verbs is as follows:

$$(c)v_{1}cv_{1}ci \Longrightarrow \begin{cases} (c)v_{2}cv_{3}c / \underline{\quad we} \\ (c)v_{2}cv_{3}ce / \underline{\quad \begin{cases} pan \\ piye \\ pi \\ pu \\ la \\ u \end{cases}} \end{cases}$$

V₁ = back or front vowels,

V₂ = front vowels(of the corresponding back ones of the basic structure,

 V_3 = front vowel or $\underline{\underline{\bullet}}$ if the basic structure $V_1 = \underline{\underline{\bullet}}$.

A few verbs that belong to this class are:

10.6C.3. Allomorphic variation of (C)VCV(V)C(C)e verbs may be stated as follows:

$$\begin{cases} (\texttt{C}) \texttt{VCV}(\texttt{V}) \texttt{C}(\texttt{C}) \texttt{u} / \underline{\quad} & \texttt{n} \Rightarrow_2 \\ \\ (\texttt{C}) \texttt{VCV}(\texttt{V}) \texttt{C}(\texttt{C}) \texttt{i} / \underline{\quad} & \begin{cases} \texttt{cci}/\texttt{a} \\ \texttt{yan} \\ \texttt{ya} \\ \texttt{la} \end{cases} \\ \\ (\texttt{C}) \texttt{VCV}(\texttt{V}) \texttt{C}(\texttt{C}) \texttt{e} / \underline{\quad} \texttt{elsewhere.}$$

Some verbs of this class are given below. (However, Imp.Aux. pan, piye, u, \emptyset do not occur with these verbs even when they (are used to) denote volitive actions; yan, ye, nne and newa may occur as Imp. Aux. in such cases (cf. also.10.6B.3.).)

(C)VCV(V)C(C)e verbs:

#lawe 'bend'..

pirihe 'decline' p#rade 'be defeated'

warade 'err, mistake' waTahe 'understand'

wehese 'strive' s#tape 'sleep, rest, relax(in bed)'
hinæhe 'laugh' wælake 'abstain, refrain'

10.6D. ALLOMORPHIC VARIATION OF QUADRISYLLABIC STRUCTURE VERBS
10.6D.1. There is just one class of quadrisyllabic structures,
namely (C)VC(C)V(V)C(C)ewe, in Sinhalese. Allomorphic variation

¹ These verbs have some semantically identical but <u>i</u> final verbs such as waredi 'err', paredi 'be defeated' and waleki 'abstain' etc. . However, these <u>i</u> final verbs do not follow the CVCVCi structure pattern introduced in 10.6C.2.

of the verbs of this class may be stated as follows. This too is very much similar to that of trisullabic structures (cf. 10.6C.1.).

$$(C)V_{C}(C)V_{1}(V)_{1}C(C) = \longrightarrow \begin{cases} (C)V_{2}C(C)V_{3}(V)_{3}C(C) = V_{2}V_{2}C(C)V_{3}(V)_{3}C(C) = V_{2}V_{3}C(C) = V_{2}V_{3$$

 V_1 = front or back vowels, V_2 = front vowels only, V_3 = front vowel or \underline{a} .

A few verbs of this class are the following:

akulawa 'cause to roll up, cause to fold'

apullawa 'cause to wash clothes'

diwurawa 'cause to swear'

pulussawa 'cause to burn or bake'

wapurawa 'cause to sow'

wikunawa 'cause to sell'

sarasawa 'cause to decorate'

salassawa 'cause to cause'

etc.

With this account of allomorphic variations of different classes of verbs belonging to different syllabic structures I conclude the chapter on the phonological verb. With the help of the account given in this chapter, I believe, that one should be able to select the proper form of the verb — the suitable allomorphic variant — in relation to the immediately following auxiliary realisation, or the process, such as reduplication, involved in any sentence. However, we have to introduce some further phonological rules — sandhi 1 and 2 — to account for the phonetic form of 'words' and sentences. These rules will be introduced in the next two chapters.

CHAPTER 11

11.0. SANDHI 1 - INTERNAL SANDHI

11.0.1. I shall attempt to introduce two types of rules in this chapter. First introduced are some obligatory sandhi rules

- 'internal', which must be applied between one formative and another within a word. They are called 'internal's and in rules because they combine formatives within words. Secondly, I propose to introduce some optional phonological rules by which certain phonological structures can be contracted to form other struct—ures. By employing these two types of rules, I believe it possi—ble to explain the phonetic representation of words. Although I have not attempted the derivation of lexical items from other items—i.e. noun derivation, verb derivation, adjective derivat—ion, adverb derivation etc.— in this study, these rules are applicable there also.

11.1. THE WORD IN SINHALESE

-ssed in the introduction to this study (v.Introduction, 8).

There I have pointed out how difficult it is to define the word as a linguistic unit broadly to fit any 'word' in any language.

I therefore propose to recognise the word in Sinhalese as a phonological unit -- a sequence of phonemes -- preceded and followed by a potential pause. It may be a minimum free form or it may be a minimum free form plus some other elements attached to it where pause comes after or before these elements. Thus a word may be a single morpheme or it may consist of more than one morpheme. We may discuss the different possible words in Sinha--lese together with various sequences of morphemes that go to

make up certain words.

11.1.2. A noun phrase, apart from a few exceptions given below (v.11.1.3 - 11.1.5.), generally comprises a word in Sinhalese.

Thus the phonological realisation of ## noun + number + definite-ness (+case) ## forms the noun phrase word in the language. The four morphemes are combined together by sandhi rules which will be described below. Hence ## NP ## is a word.

- 11.1.3. However, if the NP is [noun] + [-sg] + [-def] + [Ca], the resulting phonological representation is not a word but a complex construction with two words an adnominal and an NP. Consider these two examples:
 - i minissu wageyak men some Some men.
 - ii minihek
 A man.
- 11.1.4. Again the same is true if the NP contains a quantifier (v.Appendix A.1.). The quantifier itself is an NP, so any NP with a quantifier consists of more than one word, one or more adnominals and an NP. Consider these examples:
 - i mas raattal dekak meat pounds two Two pounds of meat.

pot dekak books two Two books. iii potak
A book.

11.1.5. There is another exception where an NP consists of more than a word. When the case relations, especially most directional case relations, are realised not as the case forms, we, Te, gen .. etc. given in 4.0.21., but as 'postpositions', lange, gaawe, uDe, digee, mædin, atere etc. (v. 4.11A.3.), all of which can have a potential pause at the beginning. Thus we have to recognise a word boundary within the NP between the definite marker and the case marker. Consider the following examples:

miniha lange salli tiyenewa
the man with money has (there) is
There is money with the man. / The man has (got) money.

gale uDe daagebak tiyenewa
the rock on a pagoda (there)is
There is a pagoda on(top of) the rock.

galee pokunak tiyenawa on the rock a pool (there)is There is a pool on the rock.

- 11.1.6. According to the foregoing account we may state that a phonological NP is a word; an adnominal within a deep syntac-tic NP is also a word(11.1.3. and 11.1.4.) and postpositions are also words.
- 11.1.7. All adnominals appearing before noun phrases whether they have resulted through processes of relativisation, nominal-isation etc. or not are different words. Consider these examples:

hoňda loku goDanægillak good large a building A good large building.

apee mallige noonage taattage amma our younger brother's wife's father's mother.

- 11.1.8. The verb is always combined with the following auxiliary. The auxiliary may be the tense and aspect marker in the case of adnominal verbals. This is a word. The auxiliary may be both tense and aspect and mood. This is the verb word (i.e. verb + tense aspect + mood).
- 11.1.9. The adjective is combined with the immediately follow-ing copula verb if it has the <u>yi</u> manifestation. Thus adjective
 + copula forms a word. (The adnominal adjective is also a word.)
- 11.1.10. Modal auxiliaries such as <u>puluweni</u> 'can', <u>whæki</u> 'can', <u>oonæ</u> 'need, must ', <u>æti</u> 'may, might' etc. are separate words as they can have a pause before and after.
- 11.1.11. When participial auxiliaries -- infinitive, npt. or pt. progressive or pt. participle aux.-- follow the verb, the two are combined to form a word.
- 11.1.12. When subordinate and coordinate conjunctions are intro-duced into sentences, they are in most cases added to tense mar-kers that follow the verbs and they (i.e.verb + tense + conj)
 together form a word. However, when sentence connectives occur
 to link sentences, they are not attached to any other constituents

of the surface sentence. so are different words.

11.1.13. The negative markers new ## ## / newti /neweyi ~nemeyi;
bee ## # / beri and epaa etc. are separate words.

11.1.14. All quantifiers and modifiers and most emotional expressions are separate words. Some emotional expressions may consist of more than one word .

11.1.15. most question words (v. App.B) including the tag ques-tion word are also words in our sense.

11.1.16. In addition to these, we come across a few other form-atives introduced into sentences by different transformations
such as emphasis, question etc., and these are usually added to
the preceding word. However, no 'not' as a negative marker is
prefixed to a verb or an adjective in a relativised nominal
phrase (i.e. an NP with an embedded relative clause). All'prefix-es' including the negative marker no should be discussed in a
study of derivational morphology. Since this study does not cover
that domain I shall not discuss 'prefixes' in Sinhalese here.

11.1.17. According to the foregoing account we have to recogni-se a number of word classes in Sinhalese, such as:

nouns (as adnominals)

noun phrases (i.e. noun + No. + Def.(+Ca))

quantifiers (i.e. quantity N.+No +Def.(+Ga))

postpositions (case realisations)

```
adjectives (adnominals)
adjective+(yi) ( predicative adjectives)
verb + tense and aspect ( relativised verbal, adnominal)
verb + Aux. ((tense ,aspect and)mood : verb word)
modal auxiliaries
infinitive verbals ( verb + infinitive aux.)
npt.progressive part. verbal ( verb + progressive part.
                                   aux. )
pt. part. verbal ( verb + pt. part. aux. )
verb + tense and asp.+ subord.conj.
verb + (tense and asp.)mood +coordinate conj.
verb + (tense and asp.) mood +(emp.)(+ ques.)
negative marker (+ emp.) (+ ques.)
modifiers
emotional words
question words
tag question word.
connectives
```

11.1.18. Some of these word classes will consist of a sequence of formatives. Consider for example:

noun phrase : # N.+No +Def. +(Ca.)+ (emp)+ (ques.) #

verb word : # vb. +tense asp. + mood + (emp)+ (ques) #

When such a formative sequence occurs within a word, the formatives are combined into one unit through the application of certain sandhi rules (which will be discussed later) between the formatives. First applying them between the two left most formatives and then recursively between the resulted structure

and the following formative till the final formative in the sequence is combined, we can account for the formation of the word unit.

11.1.19. The sandhi rules that are applied between the formatives of a word unit are called 'internal' -- Sandhi 1. These are discussed in the subsequent sections.

11.2. <u>SANDHI 1 -- INTERNAL SANDHI</u>

11.2.1. First of all we may state for clarity that all form-atives are either vowel initial or consonant initial and
either vowel final or consonant final. (For constraints of initi-al and final vowels see III.7, 10. and 11.)

11.2.2. Hawing stated that, let us examine the sandhi that takes place mostly when two dissimilar vowels as formative final and formative initial come together (i.e.-V₁+V₂-). There are a few possible ways of combining the two formatives as illustrated below.

11.2.3. I.S.R.² 1.: Final vowel deletion rule.

When a vowel final formative is followed by a vowel initial formative, the final vowel of the preceding formative is, sometimes deleted and the resulting consonant final formative is combined with the vowel initial formative. That is:

$$..cv_1 + v_2 ... \Rightarrow ..c(\emptyset) + v_2 ... \Rightarrow ..cv_2 ...$$

¹ There are a few cases where similar vowels occur.e.g. <u>haa</u> 'hare', <u>kaa</u> 'moth' etc. When followed by <u>aa</u>, they produce <u>haawaa</u>'the hare', <u>kaawaa</u>'the moth' etc.(cf.11.2.6(a).).

² I.S.R. for Internal Sandhi Rule.

- 11.2.4. However it is extremely difficult to state precisely initial when a formative final vowel before a formative/vowel is deleted.

 Nevertheless, I suggest the following contexts where the final vowel deletion is more usual.
- (a) If the structure of the preceding formative or construction is one of $\#(C)aCuC_1u$ where $C_1 = \underline{n,r,T,D}$; $\#CVf^1C(C) \begin{Bmatrix} u \\ i \end{Bmatrix} C \Rightarrow$; $\#CVf^1CVf^1CuC \Rightarrow$; $\#(C)eC \Rightarrow$; $\#CuC \Rightarrow$; #CiCi; $\#CoC \Rightarrow$; $\#CuC \Rightarrow$; #CiCi; $\#CoC \Rightarrow$; $\#CuC \Rightarrow$; #C
- i (C)aCuCu²: bamunu + aa \Rightarrow bamunaa ' the brahamin' makunu + aa \Rightarrow makunaa ' the bug'
- ii CVfCuCa : waTuna + aa/ee => waTun-aa/ee 'fell'

 baluwa + aa/ee => baluw-aa/ee 'looked'

 penuna + aa/ee => penun-aa/ee 'saw'
- iii CVfCiCa : æriya + aa/ee ⇒ æriy-aa/ee 'opened,.'
- iv CVfCVfC(C)uCə : kælættuwə +aa ⇒ kælættuwaa 'stirred'
 pæwættunə +aa ⇒ pæwættunaa 'was held'
- v CVfCVfCVfCuCə : pipirewuwə +aa ==> pipirewuwaa 'exploded'
 kækæærewuwə+aawe => kækæærewuwaawe 'let (him) decoct (it)...'
- vi CeCe³ : wede: + aa ⇒ wedaa 'physician' vii CuCe : muwe + aa ⇒ muwaa 3' deer'
- viii CiCi : iri + ə ⇒ irə 'line'

piiri + ə \Rightarrow piirə 'rasp'

- ix $CoCe^4$: hore + aa \Rightarrow hora 'thief'
- x $CaCe^{5}$: kale +ee \Rightarrow kalee 'pot'

¹ Vf = front vowels.

^{2 &}lt;u>makulu</u> has makuluwaa 'spider' but makulaa also in some peoples' usage (see also, 11.2.6(b).).

³ CeCə # ena in enawaa (ena +aa) 'come'; rena in renawaa ;
dena in denawaa : peena in peenawaa ; geena in geenawaa.

⁴ CoCe ≠ bone in bonewaa 'drink'.

⁵ CaCe # dane in danewaa 'burn'; kane in kanewaa 'eat'.

(b) In most of the above cases the initial vowel is one of <u>aa</u>, <u>a</u> or <u>ee</u> which occur always after <u>dissimilar</u> formative final vowels. Taking into account the initial vowel too we may state the deletion of some final vowels. If the initial vowel is <u>u</u> (cf.dero. Imp. <u>u</u> / CVCi_ v.8.6.5.) the final vowel of the preceding formative is deleted. Also when the initial vowel is <u>e</u> or <u>a</u> of <u>ek</u> and <u>ak</u> respectively, the final vowel except <u>e(e)</u> or <u>i(i)</u> as in <u>kalee</u> 'pot', <u>maale</u> 'necklace', <u>bælli</u> 'bitch', <u>wæssi</u> 'female calf' etc. is deleted. e.g.

ari + u => **\text{ **\text{ **} ru 'do open' (Imp.)} \\
n\text{**\text{giTi} + u => n\text{**\text{giTu} 'do get up'(Imp.)} \\
kaakkaa + ek => kaakkek 'a crow' \\
wedaa + ek => wedek 'a physician' \\
galə + ak => galak 'a rock' \\
but, \\
kalee + ak => kalevek 'a pot' (see 11.2.6 (b))

kalee + ak ⇒ kaleyak 'a pot' (see 11.2.6.(b)i)

wæssi + ak ⇒ wæssiyak 'a female calf'(see 11.2.6 (b)ii)

11.2.5. I.S.R. 2. Semivowel insertion rule

When a vowel final formative is followed by a vowel initial formative, the two vowels are combined together with an intervening semivowel \underline{y} or \underline{w} . The semivowel is determined by the formative final vowel. If the final vowel is a back one (i.e. \underline{u} , \underline{o} , \underline{a}) the semivowel is mostly \underline{w} and if the final vowel is a front one (i.e. \underline{i} , \underline{e} , \underline{x}) or \underline{a} the semivowel is \underline{y} . We may state this rule as:

$$..cv_1 + V(c).. \Rightarrow ..cv_1yV(c)..$$

$$..cv_2 + V(c).. \Rightarrow ..cv_2wV(c)...$$

$$V_1 = \text{front vowels or } \underline{\bullet}$$

$$V_2 = \text{back vowels.}$$

- 11.2.6. As mentioned in 11.2.4., here too, one finds it very difficult to make a precise statement as to when the semivowel insertion rule (= I.S.R.2) is applied. Nevertheless, I suggest the following contexts where semivowel insertion is mostly productive.
- (a) If the preceding formative ends in a long vowel, in most cases it is followed by a semivowel before a vowel initial formative. e.g.

```
haa + aa => haawaa 'hare'
haa + ii => haawii 'she hare'
maataa + ə => maataawə 'mother'
giraa + aa => girə waa 'parrot'
siilaa + aa => siilaawaa 'a kind of sea fish'
maaligaa + ə => maaligaawə 'palaca'
huu + ə => huuwə 'hoot'
buu + ə => buuwə 'hair, nap'
```

nææ + aa ⇒ nææyaa 'kinsman'

wææ + ə ⇒ wææyə 'adze'

wee + aa ⇒ weeyaa 'termite'

ii + ə ⇒ iiyə 'dart, arrow'

mii + aa ⇒ miiyaa 'rat'

There are some exceptions where \underline{w} follows a front vowel and y follows a back one. cf.

kælææ + ə ⇒ kælææwə 'forest'
kurulææ +ə ⇒ kurulææwə 'pimple'
kæsbææ + aa ⇒ kæsbææwaa 'turtle'

¹ A long vowel in a syllable before a syllable with a long vowel and after a syllable with a short vowel is shortened if the structure is a single unit $(\underline{aa} > \underline{a} > \underline{a} > \underline{a} / CVC_1 - C_1 VV$ where $C_1 \neq \underline{h}_{\bullet}$).

berəwaa + aa ⇒ berəwaayaa 'drummer'
kabaa + ə ⇒ kabaayə 'jacket '
lamaa + aa ⇒ laməyaa 1'child'

(b) If the preceding formative has one of the following struct-ures, namely, ..CVCe(e); ..CVC₁(C)i where C₁ is one of $\underline{1},\underline{r},\underline{T},\underline{D}$, \underline{w} , \underline{n} , \underline{m}C(V)VC₁u where C₁ = $\underline{1},\underline{r},\underline{T},\underline{D},\underline{w}$. \underline{n} . (cf.11.2.4(a)); ...(C)VVCe; ...(C)VCCe; CuCuCe; CeCe etc., in most cases, they are followed by a semivowel before a vowel initial formative. However, it has to be stated that there are exceptions to most of these structures. e.g.

i ..CVCe(e): malee + ak \Rightarrow maale²yak 'a necklace' kalee + ak \Rightarrow kaleyak 'a pot' gee + ak \Rightarrow geyak 'a house'

ii ..6 $VC_1(C)$ i : $C_1 = 1, r, T, D, w, n, m$.

CVl(C)i: bælli + ak \Rightarrow bælliyak 'a bitch' ali³ + aa \Rightarrow aliyaa 'elephant'

CVri : nari + aa ⇒ nariyaa 'fox '
saari + ə ⇒ saariyə 'sari'
ilandaari+aa ⇒ ilandaariyaa 'youth'

CVT(C)i : mugaTi + aa ⇒ mugaTiyaa 'mongoose'

paTTi + a ⇒ paTTiya 'herd'

CVDi : kaDi + aa ⇒ kaDiyaa 'large black ant'
geDi + ə ⇒ geDiyə 'fruit'

CVwi : diwi + aa => diwiyaa 'leopard' kawi + aa => kawiyaa 'poet'

CVni⁴ : mulaadæmi + aa => mulaadæmiyaa 'headman'

¹ see fn. 1, p.266. 2 <u>ee</u> is usually shortened to <u>e</u> before a vowel (e.g.ak) where y is inserted between the two but <u>wee+aa = weeyaa</u> is an exception. 3 beli'shell fish' is an exception. 4 <u>hini +aa = hinnaa</u> 'ant' is different.

```
dimi + aa => dimiyaa 'red ant'
      CVMi
                 pirimi +aa => pirimiyaa 'man , male'
                 kemi + ə ⇒ kemiyə 'spout, fumnel'
iii .. C(V)VC_1u : C_1 = \underline{1}, \underline{r}, \underline{T}, \underline{D}, \underline{w}, \underline{p}, \underline{n}
         .. l ..: golu + aa => goluwaa 'dumb man'
                    kolu¹ + aa ⇒ koluwaa 'boy'
                    yaalu + aa -> yaaluwaa 'friend'
                    makulu + aa => makuluwaa 'spider'
         ..r.. : maduru + aa => maduruwaa 'mosquito'
                    buuru² + aa => buuruwaa 'ass'
                           + > => oruwe 'canoe'
                    0111
                  kafu<sup>1</sup> + ⇒ kaTuwe 'shell, thorn'
        ...T..
                           + aa => oTuwaa 'camel'
                     oTu
                   næTTu + aa \Rightarrow næTTuwaa 'dancer'
                  uguDu + aa -> uguDuwaa 'wild cat'
        ...D.. :
                           + aa => waDuwaa 'carpenter'
                    wa.Du
                           + > => kaDuwa 'sword'
                    kaDu
               : #tgowu + aa => #tgowuwaa 'elephant trainer'
        ...W..
                           + a => awuwa 'sun shine'
                     awu
        ...p.. : kapu + aa -> kapuwaa 'marriage broaker'
                                 ⇒ kopuwe 'case'
                    kopu
                    kapapu + aawe=> kapapuwaawe 'let (him)cut..!
                    panu + aa => panuwaa 'worm'
       ...n...
                                 ⇒ lanuwa 'rope'
                     lanu + ə
                    yoodə³ + aa ⇒ yoodəyaa 'giant'
iv ..(C)VVCə
     ..(C)VCCə
                    naage + aa -> naageyaa 'cobra'
                     assa + aa => 'horse' assayaa
```

¹ see I.S.R.3 (v.11.2.8.ii). 2 But uuru +aa => uuraa (by I.S. R.1) 'pig'; cf. also wanduru 'monkey', pimburu'python'etc. where vowel deletion takes place.

³ But goons $+aa \Rightarrow goonaa'elk', leens +aa \Rightarrow leenaa'squirrel'.$

⇒ murugəyaa 'beast' CuCuCe : muruge + aa v + aa \Rightarrow purusayaa 'man, husband' purusə vi ..CəCə : æmibələ ⇒ æmbələyaa 'a small red ant' + aa sarəpəyaa ' serpent' sarəpə + aa ⇒

(c) If the preceding formative consists of a verb * no and also if the structure of the verb does not end in u, then the semi
-vowel that is inserted before the vowel initial formative, which must be aa, is w and not y, although the preceding vowel is o.

[If no occurs in a non verbal structure as kano 'a kind of fish', then the usual y semivowel is inserted before a vowe; initial formative: e.g. kano + no kanoyaa 'a fresh water fish'(cf. 11.2.6(b)iv, v and vi.).] e.g.

enə + aa ⇒ enəwaa 'come'
kanə + aa ⇒ kanəwaa 'eat'
kaDənə + aa ⇒ kaDənəwaa 'break,..'
wæTenə + aa ⇒ wæTenəwaa 'fall'
adinə + aa ⇒ adinəwaa 'pull,...'
pupurənə+aa ⇒ pupurənəwaa 'explode'
etc.

If \underline{n} is preceded by \underline{u}^1 , $\underline{\bullet}$ of \underline{n} is deleted before $\underline{a}\underline{a}$ or any other vowel initial formative. e.g.

kæpunə + aa ⇒ kæpunaa 'got cut'
wæTunə + aa ⇒ wæTunaa 'fell'
etc. (cf. 11.2.4(a)ii)

11.2.7. I.S.R. 3. Final vowel deletion and consonant gemination rule.

When a vowel final formative is followed by a vowel initial formative, sometimes the final vowel is deleted simultaneously geminating the immediately preceding consonant and then the two

¹ The vowel may be <u>i</u> before-<u>cci</u>/<u>a</u> or <u>ya</u> as in wæTicci+aawe \Rightarrow wæTiccaawe 'let(it) fall'and æriya+aa \Rightarrow æriyaa 'opened' etc., but never before na.e.g.adina etc.

formatives are combined together to form one unit. This may be represented as:

..cv +
$$V(C)$$
.. ⇒ ..cc (\emptyset) + $V(C)$.. ⇒ ..cc $V(C)$..

- 11.2.8. Here, too, one may not be able to specify any precise environments where this sort of sandhi takes place. Yet one could suggest a few contexts where the application of this sandhi rule is more usual than the other two types discussed earlier.
- i If the preceding formative ends in <u>i</u> or <u>u</u> preceded by one of <u>d</u>, <u>t</u>, <u>s</u>, then the final <u>i</u> or <u>u</u> are usually deleted geminating <u>d</u>, <u>t</u> or <u>s</u>, and finally the following vowel initial formative is combined to it. Further the vowel nuclei of the syllable preceding <u>d</u>, <u>t</u>, <u>s</u> should be short. e.g.

wædi ⇒ wæddaa ' Vedda man' aa pæti pætta 'side' Э **⇒** mæssaa 'fly' mæsi + aa =⇒ mæssa 'platform' mæsi \Rightarrow hodi² hodda 'broth' ==> madu ---- maddə 'noose' Э paddaa 'man of the padu caste' padu +aa -**=⇒** atu 'branch' atta Э == kærepotu+ aa kærepottaa 'cockroach' **=⇒** wasu + aa \Rightarrow wassaa 'male calf'

ii There are a few formatives where a final <u>u</u> before a vowel initial formative is preceded by 1 and T etc., but yet, they too are subject to the vowel deletion and consonant gemination rule. Consider these examples:

¹ But peti +aa => petiyaa 'a fresh water fish'.

² But podi + a => podiya 'parcel'

balu + aa ⇒ ballaa 'dog'
kolu¹ + aa ⇒ kollaa 'boy'
mahalu + aa ⇒ mahallaa 'old man'
kurulu + aa ⇒ kurullaa 'bird'
kakkuTu+ aa ⇒ kakkuTTaa 'crab'

Also cf.

padu + aa \Rightarrow { paddaa paduwaa} man of the padu caste (cf. 11.2.8i and 11.2.6(b)iii)

kaTu + \Rightarrow | kaTuwə (11.2.6(b)iii) shell'

iii When final <u>u</u> or <u>i</u> is preceded by a prenasalised stop, <u>mb</u>,

<u>nd</u> etc., and if <u>u</u> or <u>i</u> is deleted before a vowel initial

formative, the gemination of the prenasalised stop produces
a full nasal and a consonant cluster as illustrated below:

gembi + aa ⇒ gembaa 'frog'

naambu + aa ⇒ naambaa 'youth'

landu + ə ⇒ landə 'low jungle'

kandu + ə ⇒ kandə 'hill'

aNDu + ə ⇒ aNDə 'limb'

daNDu + ə ⇒ daNDə 'stick, pole...'

These are the three possible combinations when two vowels are combined within a 'word'. Next let us examine the other possible combinations when a vowel final formative is followed by a consonant initial formative or vice versa.

11.2.9. I.S.R. 4.

(a) If a vowel final formative is followed by a consonant initial formative other than \underline{wi} (v.8.8.1.) and $\underline{hu}(\underline{n})$, the

¹ Also $\underline{\text{kolu}} + \underline{\text{aa}} = \underline{\text{koluwaa}}$ 'boy' (v. 11.2.6(b)iii).

two formatives are combined together without involving any change.

(b) When the consonant initial formative is wi (v.8.8.1.) which occurs only after a verb, the final vowel of the verb, if short, is always lengthened. e.g.

e + wi \implies eewi 'may come'

naa + wi \implies naawi 'may bathe'

kərə + wi \implies kəraawi 'may do'

adi + wi \implies adiiwi 'may pull'

wæTe + wi \implies wæTeewi 'may fall, drop'

gan(i)+wi \implies ganiiwi 'may take, buy'

hore + hu(n) \Rightarrow hore + u(n) \Rightarrow horu(n)'thieves'

(cf.11.2.4(a).).

giraa + hu(n) \Rightarrow giraa +u(n) \Rightarrow girawu(n)'parrots'

(cf. 11.2.6(a);also fn.1,p.266)

ii. However, if the preceding formative ends in a preceded by d, D, n, l but not by r, then a is deleted before hu(n) and the resulting Ch (i.e. dh, Dh, nh, lh) cluster assimilates to CC (i.e. dd, DD, nn, ll). e.g.

wedə + $hu(n) \Rightarrow wed + hu(n) \Rightarrow weddu(n)$ 'physicians'

goonə + $hu(n) \Rightarrow goon + hu(n) \Rightarrow goonnu(n)$ * elks'.

etc.

We may state this rule as:

11.2.10. I.S.R. 5.

If a consonant final formative is followed by a vowel initial formative, the two are simply combined together. That is:

e.g.
$$xt + aa \Rightarrow xtaa 'elephant'$$

ang $+ \Rightarrow \Rightarrow ang \Rightarrow 'horn'$

etc.

11.2.11. I.S.R. 6.

If a consonant final formative is followed by a consonant initial formative, they are combined by applying a number of phonological rules such as those given below, if the cluster formed by the combination of the two consonants does not match the consonant cluster pattern of the language (see III.13 -15).

e.g. kollan + Tə
$$\implies$$
 kollanTə 'to the boys'

ballan + wə \implies ballanwə 'the dogs'

gewal + wələ \implies gewalwələ 'in houses'

gan + nəwa \implies gannəwa 'take'

dan + nə \implies dannə 'know(ing)'

but

*gahak + Tə \implies *gahak - Tə.

(b) Progressive assimilation:

i ...
$$C_1 + w ... \Rightarrow ... C_1 C_1$$
 but $C_1 \neq h$.

e.g.

gan + wə \Rightarrow ganwə \Rightarrow gannə 'cause to take'

adi + wə \Rightarrow adwə \Rightarrow addə 'cause to pull'

adi + wə \Rightarrow ædwə \Rightarrow æddə 'pulled'

etc.

...h + w .. => .. ss .. ii

e.g.

bahi + wə => baswə => bassə 'cause to go down' bahi + wə => bæswə => bæssə ' gone down, descended'. etc.

iii
$$\cdots$$
 C_1 + h $\cdots \Rightarrow$ $\cdots C_1 C_1$ \cdots e.g.

e.g.

 #t + hu(n) \Rightarrow #ttu(n) 'elephants'

walas + hu(n) \Rightarrow walassu(n) 'bears'

den + hu(n) \Rightarrow dennu(n) 'cows'

 $..c_1 + c_2 .. \Rightarrow ...6_2c_2...$

(c) Regressive assimilation:

(d) When a cluster can not be assimilated, it may be split by an epenthetic vowel u or a .

i
$$V_1^k + C .. \Rightarrow ..V \text{ kuC..}$$
 if $V_1 = \underline{e}$.

e.g.

ballek + To \Rightarrow ballekuTo ' to a dog'

bælliyek + gen \Rightarrow bælliyekugen 'from a bitch'

etc.

ii
$$...V_1 \begin{Bmatrix} k \\ 1 \end{Bmatrix} + C... \Rightarrow ...V_1 \begin{Bmatrix} k \\ 1 \end{Bmatrix} \Rightarrow C...if V_1 = a$$
.

e.g.

galak + Tə \Rightarrow galəkəTə 'to a rock'(v.11.3.6.iii)

potwal + Tə \Rightarrow potwələTə 'to/for books' (")

bælliyak +Tə \Rightarrow bælliyəkəTə 'to a bitch' (cf.(d)i,

above; v.11.3.6.iii)

(e) Consonant reduction:

In the next section I introduce a few more general phono--logical rules.

11.3. Some additional phonological rules.

11.3.1. Rule 7:

All prenasalised stops when doubled or fully nasalised, the result is a nasal plus consonant cluster.

$$ND \implies ND$$
; cf. da $NDu \implies daNDa 'stick, stem'$
 $ng \implies ng$; cf. na $ngi \implies nenga 'climbed'$

11.3.2. Rule 8.

Except for some potential disyllabic structure words with a short syllabic vowel in the first syllable, if there is a long vowel in the second syllable, it is changed to a short one in the phonetic representation. If the first syllable is a long one 1, then the second must be a short one in potential disyllabic words, but the second may have long vowels in potential trisyllabic words.

¹ A long syllable (or a heavy syllable) is $\{(C)VV(C)\}$.

² These structures are not primary (e.g. stems etc.) forms, which occur in adnominal position.e.g. rilaa, radaa etc.

iii
$$\# \left\{ \begin{array}{c} \text{CVV(C)} \\ \text{(c)VC} \end{array} \right\} \text{CVVCVV} \implies \left\{ \begin{array}{c} \text{CVV(C)} \\ \text{(c)VC} \end{array} \right\} \text{CVVCV}$$

e.g.

siilaawaa => siilaawa 'a kind of sea fish'

heewaayaa ⇒ heewaaya 'soldier'

pattææyaa ⇒ pattææya 'centepede'

ittææwaa \Rightarrow ittææwa ' porcupine'

$$iv \neq cvcv { \begin{pmatrix} c \\ v \end{pmatrix} cvv \implies cvcv(c)cv.}$$

giraawaa ⇒ girawa 'parrot'

radaawaa \Rightarrow radawa 'washerman'

yanəwaa ⇒ yanəwa 'go'

nariyaa ⇒ nariya 'fox'

kərannee ⇒ kəranne 'do' (emp.)

etc.

$$v \not\models cvvcvcvv \Rightarrow cvvcvcv .$$

e.g.

naanewaa -> naanewa 'bathe'

maaluwaa => maaluwa 'fish'

yaaluwaa => yaaluwa 'friend'

vi $\neq \neq (C)V(C)CV(C)CV(V)CVV \implies (C)V(C)CV(C)CV(V)CV$. e.g.

anjilaawaa => anjilaawa 'a kind of sea fish'

kæbællææwaa ⇒ kæbællææwa 'ant eater'

kapenewaa => kapenewa 'cut'

11.3.3. Rule 9.

When a formative final \underline{s} is combined with a vowel initial formative by sandhi rule I.S.R.5 (v.11.2.10.), in most situations, \underline{s} is changed to \underline{h} . e.g.

minis +aa => minihaa => miniha 'man'.

gas + \Rightarrow gaha 'tree'(cf.11.3.4.)

¹ kos +ee => kosee 'jak friit'. but never as*kohee.

[Where ver h is doubled the result is ss and never *hh .

Cf. kahi + wə *> kæssə 'coughed'; wahi+wə => wæssə 'rained' etc. |

11.3.4. Rule 10.

When $\underline{\underline{\mathbf{a}}}$ occurs after $\underline{\underline{\mathbf{h}}}$, it is changed to $\underline{\underline{\mathbf{a}}}$ if $\underline{\underline{\mathbf{h}}}$ is preceded by $\underline{\underline{\mathbf{a}}}$ or $\underline{\underline{\mathbf{o}}}$, and $\underline{\underline{\mathbf{o}}}$, too, before $\underline{\underline{\mathbf{h}}}$ is simultaneously changed to $\underline{\underline{\mathbf{a}}}$. e.g.

patas + ə ⇒ pataha 'small pond'

polos + ə ⇒ polaha 'young jak fruit '

ekolos +ə ⇒ ekolaha 'eleven'

koros + ə ⇒ koraha 'large pan'

11.3.5. Rule 11.

When $\underline{\tt a}$ occurs after \underline{h} , it is changed to $\underline{\tt a}$ if \underline{h} is preceded by $\underline{\tt a}.$ e.g.

æs + ə ⇒ æhæ 'eye' pæs + ə ⇒ pæhæ 'basket'

11.3.6. Rule 12.

i When $\underline{\bullet}$ occurs before a consonant cluster, it is changed to \underline{a} . e.g.

kərə +nnaŋ ⇒ kərannaŋ 'I 'll do'
kapə + nnə ⇒ kapannə ' do cut'(Imp.) ,'to cut'

ii Also $\underline{\mathbf{a}}$ is changed to $\underline{\mathbf{a}}$ if it occurs before a final consonant or $\underline{\mathbf{yi}}$ or $(\mathbf{w})\mathbf{u}$. e.g.

pote + t ⇒ potat 'the book also'

pote + yi ⇒ potayi 'the book and'

yame +(w)u ⇒ yamawu ' go' (Imp.₱1.)

¹ pas 'soil' never become*paha .

iii Similarly <u>a</u> before final consonants is changed to <u>a</u> when vowel initial formatives are combined with them, and also when an epenthetic vowel is inserted. e.g.

gewal + ə ⇒ gewələ 'in houses'

harak + aa ⇒ harəkaa⇒ harəka'(ox, cow)cattle'

galak + Tə ⇒ galəkəTə 'to a rock'

etc.

11.3.7. Rule 13.

No word can occur with a final prenasalised stop.

When there are situations where prenasalised stops occur finally,
the stop consonant is always deleted simultaneously fully nasal-ising the half nasal of the prenasalised stop. e.g.

ang + → ang → but*ang # → an # 'horns'

lind + → lind → but *lind# → lin → lin # wells'

kaland+ → → kaland → but *kaland → kalan # 'a small

measure'

polong+aa→ polonga but *polong# → polon # 'viper'

It seems that the final stops of some prenasalised stops drop before consonant initial formatives also, where assimilation does not take place. e.g.

ang + wələ ⇒ anywələ 'in horms' lind + wələ⇒ linywələ 'in wells' etc.

11.3.8. Rule 14.

A nasal before a stop is always homorganic with the stop. It may be $\underline{\eta}/\underline{n}$ before $\underline{v},\underline{w},\underline{s}$. and \underline{l} , and $\underline{\eta}$ before \underline{h} . e.g.

ballan + Tə

ballan + Tə

ballan + gen

ballangen 'from the dogs'

paalam + wələTə

paalanwələTə 'to/for the bridges'

etc.

11.3.9. Rule 15.

A nasal before # (i.e.word boundary) is usually velarised.

(However, it may undergo some other changes before other words according to external sandhi rules.) e.g.

toran ⇒ toran #.

paalam ⇒ paalan ##

etc.

11.3.10. Rule 16.

Finally, I introduce a few more rules by which certain underlying phonological representations can be converted to certain other phonetic representations. The application of these rules is, however, optional, so even the phonological representations may appear as phonetic representations as well. Most of these are certain contractions of some under-lying structures.

- (a) ..eyə.. ⇒ ..ee.. (e by rule 8.ii etc.)

 e.g.

 kaleyəkin ⇒ kaleekin 'from a pot'
 yə
 maalekin ⇒ maalekin 'from a necklace'
 etc.
- (b) ...ay. . ⇒ ...ey..

 e.g.

 yoodayaa ⇒ yoodaya 'giant'

 duutayaa ⇒ duutaya 'messenger'

 etc.
- (c) ... eye .. ⇒ .ee ..

 e.g.

 duuteyek ⇒ duuteek 'a messenger'
- (d) ...əwə.. ⇒ ..oo..
 e.g.

 porəwə ⇒ poroo 'axe'

 paTəwənəwa ⇒ paToonəwa 'load'

 karəwələ ⇒ karoolə 'dried fish'

(h) ...
$$\begin{bmatrix} \text{iyuw} \\ (\text{æ}) \text{æyuw} \end{bmatrix}$$
 ,.. \Rightarrow .. $\begin{bmatrix} \text{iww} \\ (\text{æ}) \text{æww} \end{bmatrix}$..

e.g.

liyuwə ⇒ liwwə 'wrote'

pææyuwə ⇒ pææwwə 'ceased (raining),...'

etc.

CHAPTER 12

- 12.0. SANDHI 2 EXTERNAL SANDHI
- 12.0.1. In this last chapter, an attempt will be made to introduce some optionally applicable sandhi rules called external sandhi. They are so called because they are applied between words and not between morphemes within a morpheme sequence of a word. It is possible in deliberately slow speech to avoid the application of all these external sandhi rules. But in normal, rapid speech people speak freely, mostly with--out much interruption of pauses or word boundaries. In the previous chapter we discussed the word in Sinhalese and also introduced certain internal sandhi rules that must be applied between morphemes (or formatives) in producing the different possible words. In the following sections let us introduce another set of sandhi rules that may be applied between the words in producing continuous utterances or the phonetic representation of sentences.
- 12.0.2. A word in Sinhalese is either vowel or consonant initial and vowel or consonant final. For constraints of initial and final vowels and consonants see III.7 and III.10 and 11. Taking into account this initial and final sounds of words, let us examine sandhi between words.

12.1. EXTERNAL SANDHI RULES

12.1.1. All words beginning or ending in a vowel can have word boundary before and after them. Therefore, even in ordinary, or perhaps in rapid, speech when a vowel final word is followed by a vowel initial word, the boundary may remain.

E.S.R. 1. ... $CV \neq VC.. \Rightarrow ... CV \neq VC..$

e.g.

miniha ## gaha ## adinəwa ##

the man the tree pull

The man pulls the tree.

horaa ## iiye-t (t)² willa ## the thief yesterday too had come
The thief had come yesterday too.

kaareke ## elewanne ## epaa ##

the car drive do'nt

Do not drive the car.

12.1.2. However, in certain environments where a vowel final word and a vowel initial word come together the boundary is removed by combining the two vowels as postulated below:

E.S.R. 2. .. $CV(V) \not= (V)VC.. \Rightarrow CV(V) (\not=)(V)VC \Rightarrow .C(V)VC..$

i

.. Cə # V(V)C .. \Rightarrow ..CVVC..

e.g.

hatə # aTak \implies hataaTak

seven eight some seven or eight.

maDə # aara ⇒ maDaara

mud a fish 'a fresh water fish.'

ate # arinewa ⇒ ataarinewa
hand release 'drop'

hand release 'drop

hondə # wweriyə hondawweriyə
good bunch the good bunch(of bananas)

¹ E.S.R. for External Sand hi Rule.

² see E.S.R.4 in 12.1.4.

ii .. $CV_1 \not= V_1 C.. \Rightarrow ..CV_1 V_1 C..$ if $V_1 =$ the same vowel; (long or short) e.g. gaha ≠ adinə ⇒ gahaadinə tree pulling tree pulling kiri # itirenə ⇒ kiriitirenə milk boiling (= prosperous) milk boiling giyaa # aawa ⇒ giyaawa went came went and came iii $..cv_1 \neq v_2 c.. \Rightarrow ..cv_2 c..$ e.g. maha # amma => mahamma big mother 'mother's elder sister' punci # amma ⇒ puncamma small mother mother's younger sister' iv .. $CV \neq VC$.. \Rightarrow .. CV_1y/wVC .. if V_1 =frontV then \underline{y} $V_1 = \text{back } V \text{ then } \underline{W}.$ aacci ≠ amma ⇒ aacciyamma grand mother grand mother kaTu ≠ alə ⇒ kaTuwələ 'a kind of yam'

v
$$\cdot \cdot \cdot^{C_1 V_1} \neq V_2 C \cdot \cdot \Rightarrow \cdot \cdot \cdot^{C_1 C_1 V_2 C \cdot \cdot}$$

e.g.
loku \neq ayiya \Rightarrow lokkayiya
big elder brother 'big elder brother'

12.1.3. When a vowel final word is followed by a consonant initial word they remain as two words — there is no involvement

of sandhi here. This may be stated as:

E.S.R. 3. ..CV \neq 6.. \Rightarrow ..CV \neq C..

e.g.

miniha ## gahaTə ## nægga ##

the man to the tree climbed

The man climbed on to the tree.

lameya ## naTenewa ## hondayi ## neede ##

the child dance well doesn't he

The child dances well.Doesn't he?

12.1.4. When a consonant final word is followed by a vowel initial word, the two words may be combined by doubling the final consonant and joining the two words together letting ## to disappear. That is:

E.S.R.4. ..VC \neq V.. \Rightarrow ..VCCV..

e.g.

gok # attə ⇒ gokkattə

gok branch 'young coconut branch'

hat# awuruddak # unnu # ekaa # =>
seven years for stayed one

hattawuruddakkunnu ## ekaa##.
one who stayed for seven years.

12.1.5. Sandhi between a consonant final word and a consonant initial word needs to be stated in some detail. First of all it has to be mentioned that not all consonants are very productive in word final position. Only a few such as \underline{k} , \underline{t} , \underline{n} , \underline{l} and \underline{s} are productive. Others occur finally in loan words \underline{l} and there these

¹ see III.11.for a few examples.

consonants tend to remain mostly unchanged before consonant initial words. Consequently we may state sandhi between consonant final and consonant initial words taking into consideration the words ending in \underline{k} , \underline{t} , \underline{n} , \underline{l} and \underline{s} . A number of sandhi rules are proposed to cover the sandhi between words ending in those consonants and consonant initial words. First, let us take \underline{k} final words.

E.S.R. 5.
$$i \cdot k^{1} \not\models C_{1} \cdot \Rightarrow \cdot \cdot C_{1}(\not\models)C_{1} \cdot \cdot$$

$$C_{1} = k, c, T, t, p, g, j, D, d, b, (s)$$

$$ii \cdot \cdot k^{1} \not\models C_{2} \cdot \Rightarrow \cdot \cdot k(\not\models)C_{2} \cdot \cdot$$

$$C_{2} \not\models C_{1} \cdot \cdot$$

i e.g.

harak # koTuwə => karak(##)koTuwə
cattle stall
cattle stall

puwak # gobee => puwag(#)gobee
areca-nut young branch young areca-nut branch.

puwak ## Tikə => puwaT(##)Tikə
areca-nut little little amount of areca-nut.

kaak # pæTiya ⇒ kaap(#)pæTiya crow chick chicken crow. etc.

ii. eg.

harak # madbuwə => harak(#)maDuwə
cattle shed cattle shed

minihek # naanawa => minihek(#)naanawa.

a man bathe a man is bathing

Sandhi between \underline{t} final words and \underline{C} initial words may be stated as:

¹ Word final \underline{p} in a few Sinhalese words such as \underline{lip} 'hearth', \underline{kap} 'post' etc. behave like final \underline{k} .

E.S.R. 6. i .. t
$$\# C_1 \Rightarrow ... C_1(\#) C_1... if C_1 = c,T,D,j.$$

ii ..t $\# C_2 \Rightarrow ... d(\#) C_2... if C_2 = g,b,d.$
iii ..t $\# C_3 \Rightarrow ... t(\#) C_3... if C_3 \neq C_1,C_2.$

i e.g.

bat # Tikak => baT(#)Tikak
rice a little a little rice.

bat # cuTTak => bac(#)cuTTak
rice a little a little rice
bat # Dingak => baD(#)Dingak
rice a little a little rice

bat $\neq juNDak \implies baj(\neq juNDak$

rice a little a little rice.

ii e.g.

pot # goDə \Rightarrow pod(#)goDə books heap heap of books

pot ≠ bandinewa ⇒ pod(≠)bandinewa books bind bind books.

palaat # dekə ⇒ palaad(#)dekə
provinces two two provinces

iii e.g

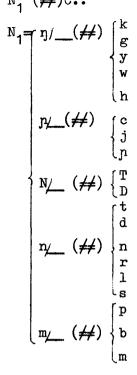
 $pot \not \# kaDee \implies pot(\not \#) kaDee$ books shop book shop

 $dat \not \models næti \implies dat(\not \models) næti$ teeth less toothless

bat ## mulə \Rightarrow bat(##) mulə rice parcel of rice.

Sandhi between n final words and C initial words may be stated as:

E.S.R. 7. ..
$$\eta \not\models C.. \Rightarrow N_1 (\not\models)C..$$



e.g.

seene doDan(#)kaDenewa Sena oranges pick Sena picks oranges.

seena doDan(#)ganinawa Sena oranges count Sena counts oranges.

paalan (#/) yaTə bridges under under the bridges.

pin(##) watta
merit estate
estate donated (to a temple as a meritorious deed)

lin (##) hindila

wells have gone dry

dæn(##)canda-kaale

now election time

this is the election period.

lin(#)jamburayi
wells deep are
wells are deep.

un(#)paanewantayi
they intelligent are
They are intelligent.

doDaN(#)Tike
oranges few
the few oranges.

paaN(#)Dingak
bread a little
a little amount of bread.

paan(#)tæTiyə
bread tray
tray for baking bread.

an(#)dekə
horns two
two horns.
an(#)næti
horn less

kan(≠)ratu
ears red
red eared,
lin(≠)lağgə
wells near
near wells.

ran(≠)sembuwə
golden small pot
small golden pot.
ham(≠)paTiyə

leather belt

gom(#/)baane

bulls two / two bulls .

nelum(#/)malə
lotus flower

Sandhi between 1 final words and C initial words may be stated as:

E.S.R. 8. ... 1 # C... \Rightarrow ...1(#)C... e.g.

pol(⊭)kaTu

coconut shells

 $pol(\neq)gaha$

coconut tree

gal(#)Tikak

stones a few

a few stones.

kal(#/)tiyenəwa

time there is

there is time

 $mal(\neq\neq)dek_{\Rightarrow}$

flowers two

two flowers.

etc.

Sandhi between s final words and C initial words is as follows:

E.S.R. 9. ...s # C.. \Rightarrow ..s(#)C..

.e.g.

 $mas(\neq\neq)kaDee$

meat stall (= butcher's shop)

pas(#)tel

five oil

five kinds of oil

kos(≠)geDiyə

jak frait

etc.

Sandhi between non-productive C final words and C initial words may be stated as:

E.S.R. 10. ... $^{\text{C}}_{1} \neq ^{\text{C}}_{\cdot \cdot \cdot} \Rightarrow ..._{1} (\neq +)_{\text{C}}_{\cdot \cdot \cdot}$ e.g.

mæc($\neq +$) dekə

matches two

two matches.

biifruuf(#)baage
beetroot half
half a pound of beet-root.

kilip(#)kææli clip pieces pieces of a clip

Tiim(#)tunak
teams three
three teams.
etc.

12.1.6. Finally, I conclude this chapter by stating that, although the word boundary is removed in rapid speech, the stress remains mostly on the first syllable of each word if the second syllable is not a heavy one. However, if the word consists of a number of combined morphemes and the sandhi produces a heavy second syllable, then the first is stressed, as in:

æt + aa == ½taa 'elephant'
gon +aa == gonaa 'bull'
etc.

Cf. also: wilaapa 'lamentation'; balla 'dog'
karatte 'cart'; assaddanawa 'till,asweddumise' etc.

¹ A heavy syllable is one with a long syllabic vowel or a vowel followed by a consonant which does not belong to the following syllable. (C)VV(C)/(C)VC are heavy syllables.

$\underline{\mathbf{A}} \ \underline{\mathbf{P}} \ \underline{\mathbf{P}} \ \underline{\mathbf{E}} \ \underline{\mathbf{N}} \ \underline{\mathbf{D}} \ \underline{\mathbf{I}} \ \underline{\mathbf{X}} \ \underline{\mathbf{E}} \ \underline{\mathbf{S}}$

APPENDIX A

A.O. QUANTIFIERS AND MODIFIERS

- A.O.1. In this section I propose to introduce some quantifiers and modifiers in Sinhalese. I shall not, however, indulge in any long discussion in to the syntax and semantics of them. Quantifiers are different from modifiers. As far as I understand them, quantifiers are a part of complex noun phrases, whereas modifiers are related to whole sentences. The same form may appear as a quantifier as well as a modifier. If it modifies a sentence (or a proposition) then it is a modifier and if its function is to quantify the noun phrase, then a quantifier. Thus it is not the form that decides whether a particular form is a quantifier or a modifier but the semantic function.
- A.O.2. Modifiers are usually treated as adverbs. They modify whole sentences. Predicates and arguments of propositions are related together by case relations, so, when we say a modifier modifies a predicate, it actually means that it modifies the whole proposition -- i.e. the semtence when the auxiliary is included.

A.1. QUANTIFIERS IN SINHALESE

A.1.1. As just stated quantifiers form a part of complex noun phrases. All numerals and a few quantity nouns together with singular number and definiteness (i.e. + or -) categories (i.e. quantity noun phrases) can be added to other noun phrases which are marked for [-sg] number and [+ def] to form complex (quantity) noun phrases. Furthermore, in certain cases, another noun phrase with a noun marked [+measure] and [-sg] and [+def]

may occur after/common noun phrase and before the quantity noun phrase in forming a complex noun phrase with three noun phrases in one. Although all constituent noun phrases are marked for number (i.e.[-sg]) and definiteness (i.e.[+def]), actually the number and definiteness of the final member, the noun phrase with a quantity noun, or the quantifier, should be considered as the number and definiteness of the whole complex noun phrase (see Lakoff, G. 1970, p.180.).

- A.1.2. Some examples to illustrate the different possible noun phrases with quantifiers are given first, there then follows a list of quantifiers.
- i galak \(\) gal + \(\text{a} + \) ak = N + [+sg] + [-def].
 a rock / a stone

 Here the [-def] may be considered as some quantification one rock.
- ii gal + dek + ⇒ + ak ⇒ gal dekak
 rocks two (some)
 two rocks. (indefinite reference).
 The definite reference is:
 gal + dek + ⇒ + ∅ ⇒ gal dekə
 rocks two (the)
 the two rocks.
- iii al⇒ + raattal + tun + ⇒ + ak ⇒ al⇒ raattal tunak
 potatoes pounds three (some)
 three pounds of potatoes (+ indefinite)

 Compare the definite quantity NP:

alə + raattal + $\underline{\text{tun}}$ + $\Rightarrow \phi$ = alə raattal tunə potatoes pounds three the three pounds of potatoes.

Cf. also:

gewal sameharak

houses some

some houses.

redi yaarə tunə hatərak cloths yards three four three or for yards of cloth.

- A.1.3. It seems reasonable to believe that there is some semantic relation between definiteness and quantifiers. However, inquantifiers are more definite than/definite and they stress the quantity more than that can be expressed by definiteness.
- A.1.4. All numerals belong to this class of quantifiers. They are similar to nouns. Some numerals are the following:

111 ek de(k) 121 tun '3' hatere '4' pas '5' 161 hayə 171 hat 181 aTa namə 1 91 daha '10' ekolos '11' dolos '12' daha - tun '13' daha daa- hatere '14' pahalos '15'

```
daa-səyə '16'
daa- hat '17 '
 . . . .
wisi '20'
tis ' 30 '
hatəlis '40'
panas ' 50 '
hæTe '60'
hættæ ' 70'
asuu ' 80 '
anuu ' 90 '
'001' eyia
ek(4)-siya-ek '101'
de-siya- ek '201'
daas '1000
ek(ə)-daas-ek(ə)-siyə-ek '1101'
etc.
```

A.1.5. A few quantifiers which are not numerals are listed below: both definite and indefinite forms are given (where they are found).

def. indef. hunge 'the lot ' hungak 'a lot' Tikak 'a little/few' Tike 'the little/few' goDe ' many' goDak ' much, a lot' (no def.form) sameharak 'some' kiipe 'the few' kiipeyak 'a few, some' ganene 'the amount' 'several' ganənak ganenaawak ? okkoma 'all' ? seerama "

A.2. MODIFIERS IN SINHALESE

A.2.1. By modifiers I mean those expressions that are general—
-ly called adverbs. Since I do not attempt to study these

expressions in detail in relation to their deep syntax and semantics, I merely propose to recognise a number of classes of modifiers to introduce some expressions from Sinhalese.

- A.2.2. Propositions of sentences consist of predicates -verbs and adjectives -- and a number of obligatory arguments presupposed by or determined by them. In addition to these nuclear constituents the propositions may contain extranuclear adjuncts, expressing such additional information as how, why, when, where etc. the evets take or took place. Some such express--ions may be explained in relation to case relations. (Compare the Time and Locative case relations, for instance.) However, there are expressions that may be explained differently. They may have resulted through lexicalisation or some similar process--es from some underlying sentences. Furthermore, there are some expressions which can not be explained in relation to both tase relations and underlying sentences. Thus, the adjuncts, as modifiers of propositions, appear to be some complex expressions. which require a careful study before any classification is attemt--ed.
- A.2.3. In this study of morphology, I do not propose to discuss these modifiers in relation to deep facts of syntax and semantics. These must be studied in a study of syntax of Sinhalese. Yet, although I restrict myself from going into any detailed discuss—ion of syntax and semantics of modifiers (= adverbs) I shall, at least, list some of the expressions used as modifiers. These will be found below under a number of classes, set up according

to the semantic function of the expressions, together with a short note.

A.2A. TIME MODIFIERS

- A.2A.1. Most time modifiers can be explained with a time case relation. There is a class of nouns denoting different periods of time. Thus ada 'today', heTa'tomorrow' etc. and udee 'morning', hawaha 'afternoon', rem 'night' etc., and many other such nouns when occur as adjuncts, their function is as time modifiers.

 Noun phrases with these time denoting nouns in different time case relations are time modifiers -- adjuncts. However, they may be explained differently, possibly as resulted through subordination.
- A.2A.2. Then there are a few expressions which are not noun phrases in time case but are some special forms functioning as modifiers denoting 'repetition', 'frequency' etc. e.g.

hæmətissemə 'always'
aaye(mə)(t) 'again'
næwətə(t) 'again'
nitərə(mə) 'always, often'
etc.

A.2B. PLACE MODIFIERS

A.2B.1. Some of the place modifiers are noun phrases in the Locative case relation, apparently occurring as adjuncts to propositions. It seems to me, that these NPs are not simply added to propositions, but have remained in such propositions (as adjuncts) through the process of relativisation of an embed-ded sentence or through coordination. Thus:

miniha watte gaha kapenewa
the man in the estate the tree cut
The man cuts the tree in the estate.

This may mean two things as:

- (a) The man is in the estate and he cuts the tree, or,
- (b) The man cuts the tree which is in the estate.

miniha watte innewa + miniha gaha kapenewa
the man in the estate is. the man the tree cut
The man is in the estate. The man cuts the tree., when conjoined
give the sentence:

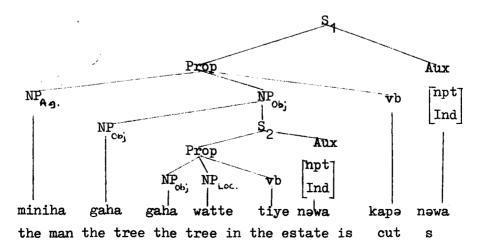
miniha watte gaha kapenewa
The man(is)in the estate(and)(he)cuts the tree.

This sentence can be explained in relation to relativisation as:

- (a) miniha (miniha watte innewa) gaha kapenewa the man (the man in the estate is) the tree cut The man(who is in the estate) cuts the tree.
- (b) miniha gaha (gaha watte tiyenawa) kapanawa the man the tree (the tree in the estate is) cut The man cuts the tree (which is in the estate).

Let us examine the deep and surface structure relation of the sentence (b): miniha watte gaha kapenewa.

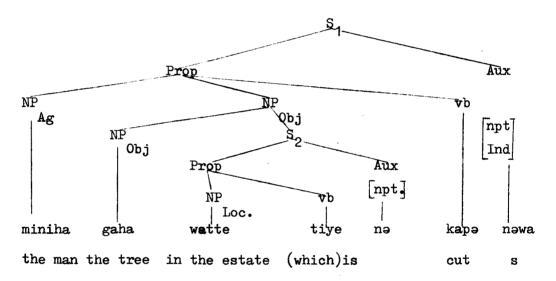
The deep structure of the above sentence may be suggested as:

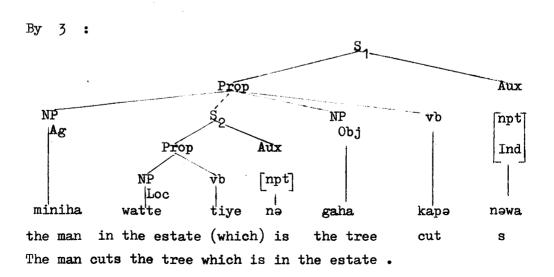


- 1 Equi-NP deletion deletes the NP/of S₂:
- 2 Modality of Sois deleted;
- 3 The remaining S_2 is added before NP Obj, of the Prop. of S_1 ; and the repetitive node deletion;
- 4 Verb + Aux. of S₂ deletion if verb is <u>tibe([tiye])</u> or <u>indi</u> 'be'; this is optional.

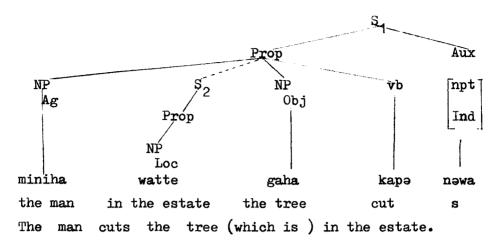
The result is the sentence given above (i.e.(b)). Let us see these stages in diagram:

By 1 and 2:





However, by applying rule 4, which is optional, we get:



This elucidates the fact that the NP in Locative case is not merely a kind of modifier added to the proposition from out; side, but a result of relativisation where a sentence has been embedded in the proposition of the matrix sentence. Thus place modifiers of NP Loc. nature are not independent place modifiers (i.e.a special class of lexical items) but have resulted through relativisation.

A.2B.2. Then there is another class of place modifiers such as watte di 'when/ while in the estate', gamee di 'while/when in the village' etc., where an NP Loc. + di constitute the modifier. These, too, have resulted from some underlying subord-inate sentences where subordination denotes some temporal relationship such as 'while, when, 'at the time when..'etc.. Compare the following sentences.

sisil gedərə di pintuurə andinəwa
Sisil at home while pictures draw
Sisil draws pictures while (he is) at home.
sisil gedərə innə-koTə pintuurə andinəwa and sisil gedərə iddi / indədi pintuurə andinəwa
Sisil at home while he is pictures draw(s).

Accordingly I believe that <u>gedere</u> <u>di</u> and similar express-ions have resulted from subordinate sentences like <u>sisil gedere</u>
<u>innewa</u> + subordinate conjunction <u>di</u>, etc. Therefore, neither is
this type of place modifier a mere adjunct to propositions, but
results from some underlying sentences in the process of subord-ination.

Since we can explain all (?/most) place modifiers syntac-tically, I think we need not list them as a class of express-ions used as adjuncts, because they are more complex than
simply adjuncts.

A.2C. MANNER MODIFIERS

- A.2C.1. The manner in which an activity or event takes (or took) place is expressed by a class of expressions called manner adverbs (or modifiers). These, too, may be explained differently.
- A.2C.2. The majority of these manner adverbs are derived from adjectives. Therefore, I list a few expressions here and leave a fuller investigation to a study of the derivation of modifiers in Sinhalese.

hondin | well, in a proper manner' hondaTa | 'slowly'...

hemin | 'slowly'...

ikmanin | 'quickly'...

duken | 'with sorrow'...

```
satuTin | 'happily'...
santoosen | 'carefully'

dassa- lesa / widiyaTa 'cleverly'...
etc.
```

A.2C.3. These, and many similar constructions in Sinhalese may be explained as having resulted from some underlying struct
ures as Lakoff has discussed (see Lakoff, G. 1970. pp.157 ff.).

However, I do not attempt to demonstrate manner adverbs in Sinhalese in a similar way, because my research into Sinhalese syntax is so far very limited, and furthermore, it is not my aim to go into deep areas of syntax in this thesis.

A.2D. QUANTIFYING MODIFIERS

A.2D.1. Besides the different classes of modifiers discussed so far, we have to recognise another class of expressions used as adjuncts in propositions to quantify the whole proposition. They include:

bohomə 'very'
hari 'very'
huŋgak 'a good deal,...'
Tikak 'a little,...'
tarəmak 'somewhat,...'
sææhennə' considerably,...'
æti- taram 'as many / much as possible,...'
æti-padam '"""
etc.

A.2D.2. One may recognise further classes of modifiers.

However, I limit myself to those few classes stating the fact

that many other similar constructions can be explained either in relation to case relations or in relation to coordination or subordination. We have seen, even in the above cases, that they may have resulted from some underlying structures. This suggests that many so-called modifiers or adverbs have to be carefully studied syntactically and semantically before they are classificed as modifiers etc. We may have to recognise a number of sentence connectives and conjunctions — both coordinate and subordinate — expressing a wide range of relationships. Then by making use of these conjunctions and connectives we may be able to account for many surface 'adjuncts', when we study different processes involved in subordination and coordination. However, to refer to certain expressions at least, we have to use the term adverb or modifier whatever they may be in deep syntactic structures.

APPENDIX B

B.O. 1. The purpose of this account is not to discuss problems of syntax involved in question formation, negation or emphasis and such other areas in Sinhalese. The aim is to introduce a number of expressions, 'particles'as sometimes they are called, in relation to those processes. When the deep structure sentences or the constituents (i.e. NP, verb, etc.) are marked for question, emphasis, negation etc., the different expressions signalling these deep properties are manifest in surface structures in different places in the sentence according to the place of their attachment in the deep structures. Without exploring the complexity of the syntax of these areas let us simply introduce some forms in relation to them.

B.1. QUESTION FORMATION

- B.1.1. As in some languages, a semtence in Sinhalese can be used as a question when it is used with a rising or high into-nation at the end. Thus intonation is a marker of 'question'.
- B.1.2. Besides high intonation, a sentence (a simple declarative or a negative one) may be converted to a question by adding a question marker de at the end of a sentence. Compare these examples:
- S: mahatteya gedərə innəwa the gentleman at home is The gentleman is at home.
- Q: mahatteya gedere innewa de the gentleman at home is (?)

 Is the gentleman at home?

Also:

mahatteya gedərə innəwa
Is the gentleman at home ?

Thus any declarative sentence can be transformed into a question either by introducing a rising intonation, or by add-ing the question marker $\underline{d} = 1$. This includes equational sentenc-es and sentences with categorial propositions -- propositions with predicative adjectives determining argument NPs. Compare these examples:

- i sumənəpaalə guruwərəyek Sumanapala (is) a teacher.
- Q: sumənəpaalə guruwərəyek <u>də</u>
 Is Sumanapala a teacher?
- ii. asookaa ganaŋwələTə dassa -yi Asoka at Arithmetic good is Asoka is good at Arithmetic.
- Q: asookaa gananwələTə dassə-(yi)-<u>də</u>
 Is Asoka good at Arithmetic?
- iii mee pota honda nææ
 this book good is not
 This book is not good.
- Q: mee pote honde nædde (< næt(i)de)

 Is this book not good?
- B.1.3. In Sinhalese there is a class of expressions which are usually referred to as question words, which occur in certain

¹ de may occur as ye or y in some dialects.

question sentences. Some of these expressions also contain the question marker <u>de</u> in them. However, in certain cases this <u>de</u> element may occur attached to some NP or the verb of the sentence and the rest of the question word -- mostly the question deictic (see 6.3.6.) -- remains without it. Some of these expressions with a few examples are given below, as a syntactically based explanation is beyond the scope of this study.

B.1.4.

kaa : kawudə 'who'

kawudə gedərə
Who (is) at home ?

but,

kaat kawurut næti (= idiom)
without any (relatives etc....)

: kawuru 'who'

<u>kawuru</u> <u>kawuru</u> aawa <u>də</u> / <u>kawuru</u> <u>kawurudə</u> aawe who who came who who came
Who and who did come?

: kaawe-de 'who(m)'

miniha <u>kaawada</u> alla-gatte
the man who caught hold of
Who did the man catch hold of?

: kaaTede 'to whom'

umbə <u>kaaTədə</u> kiwwe you to whom did say To whom did you say (it) ?

- kaagen-də 'from whom'

 kaagendə baDu gatte

 form whom goods bought

 From whom did you buy goods?
- kaa langede 'with/at whom'

 kaa langede yaturu

 with whom the keys

 With whom are the keys?
- tamuse <u>kaa ekkədə</u> giyee you with whom went With whom did you go?
- B.1.5. In all these cases <u>kaa</u> with its variants <u>kawu-</u> and <u>kawuru</u>, functions as a pronoun. It is similar to <u>koy-kenaa</u> 'which one'; <u>koy-ekaa</u> 'which one' (<u>kooka koyka koyekaa</u> 'which one') or <u>mone-kenaa</u> or <u>mone-ekaa</u> 'which one'. Although these interrogative pronouns (?) are inherently capable of expressing inter-rogation', still the question marker <u>de</u> occurs in most cases.

 I believe that <u>kaa</u> is a complex interrogative pronoun, neutral as to [+ or male] property and has resulted through lexical-isation of some underlying complex interrogative pronominal noun phrases like <u>koy-kenaa</u> 'which one', <u>koy-ekaa</u> 'which one', <u>koy-ekaa</u> 'which one', <u>koy-ekii</u> 'which female' etc., which in fact have resulted through the pronominalisation of such constructions as <u>koy miniha</u> 'which man', <u>koy balla</u> 'which dog' or <u>koy kelle</u> 'which girl' etc..
- B.1.6. I have already introduced, under deictics, the two question deictics <u>koy</u> 'which' and <u>mone</u> 'which' (v.6.3.6.).

I now introduce a few more question words:

æyi(də) 'why'

mokede why

kiiya-də ' how much, what (time is it)'
kiiyak-də ' how much (money etc.); how many,...'

Compare the following examples:

miniha giyee <u>wyi</u> / <u>mokeda</u> / <u>mokoo</u> the man went why Why did the man go?

myi(da) tamuse yanne nætte
why you go not
Why do'nt you go?

mee pota <u>kiiyada</u>
this book how much
How much is this book?

dæn welaawa <u>kiiyada</u>
now the time what
What is the time now?

tamuse minihaTə <u>kiiyak-də</u> dunne you to the man how much gave How much /many did you give the man?

kii in kii-yə 'how much', kii-yak 'how much' or kii-denaa 'how many' ... etc., may be considered as an interrogative quantifier. It too, as other quantifiers (see App. A.1.) should be associat-ed with number and definiteness. Thus kiiyə 'how much' and kii-denaa 'how many' (animate beings) are definite forms and kiiyak 'how much' and kii denek 'how many' are indefinite forms.

kohe 'where', kotənə 'where' etc. may be explained as consist-ing of the interrogative deictic koy 'which' plus ehe 'place'
or tanə 'place'.

B.1.7. One may come across similar forms, but most of them may have either the interrogative deictics koy or mone 'which' or the interrogative quantifier kii 'how(many/much)'as the interrogative element in them. However, the following two expressions are somewhat complex.

kohomede 'how' (? koy+home heme)

eyaa <u>kohomədə</u> dænə-gatte
he how did come to know
How did he know?

kawadda-də 'when' (? kawərə + daa+də)

seer <u>kawadda-de/ kaweda-de</u> yanne sir when do go Sir, when are you going?

B.2. EMPHASIS

- B.2.1. Most deep syntactic units such as NPs, verbs, adjuncts, and some conjunctions, and also question and negative sentences can be emphasised to produce emphatic sentences simple or compl-ex, emphatic questions and emphatic negative sentences etc..
- B.2.2. A simple declarative sentence is non emphatic. It can be transformed into an emphatic sentence by introducing the emphatic marker <u>tamay</u> 1 indeed, yes' after the sentence. Consider

¹ another free variant is tamaa.

the following declarative sentence with the emphatic one:

miniha kollaTə gahanəwa the man to the boy beat The man beats the boy.

Emphatic:

miniha kollaTe gahanewa tamay the man the boy beats indeed The man beats the boy indeed.

B.2.3. A simple negative sentence is also non-emphatic. By the introduction of tamay 'definitely, indeed', negative sentences can be emphasised. Compare the following two sentences, simple negative one and emphatic negative one.

Simple neg.:

sarat liyanne nææ Sarat write not Sarat does not write

Emphatic:

sarat liyanne nææ <u>tamay</u>
Sarat write not definitely
Sarat does not write indeed.

- B.2.4. Any NP of a sentence, of a question or of a negative sentence, can be emphasised. An NP of a simple sentence can be emphasised by adding either -y or tamay 'it is...' emphatic markers after the full NPs (i.e. NP including case markers). Compare the examples given below:
- (a) lameya gahak kapenewa
 the child a tree cut
 The child cuts a tree.

- (b) lameya-y gahak kapan<u>ne</u> lameya <u>tamay</u>

 it is the child a tree cut

 It is the child who is cutting a tree.
- (d) lameya pihiyen tamay gahak kapan<u>ne</u>
 the child it is with the knife attree cut
 It is with the knife that the child is cutting a tree.
- B.2.5. One must notice that the indicative modal marker $(w)\underline{a}_{Q}$ of sentence (a) changes to its emphatic expform in sentences (b), (c) and (d). Thus the modality itself is capable of signalling emphasis. However, when \underline{y} or tamay are not used, the emphasised NP is usually placed or shifted to the right of the verb with the auxiliary marked for emphasis besides other properties. Thus instead of (b), (c) and (d) we may have (e), (f) and (g).
- (e) gahak kapanne lameya (-y tamay) 1

 It is the child who is cutting a tree.
- (f) lameya kapanne gahak $\left\{\begin{bmatrix} -u-y \\ tamay \end{bmatrix}\right\}^1$ It is a tree that the child is cutting.
- (g) lameya gahak kapanne pihiyen (tamay)¹
 It is with the knife that the child is cutting a tree.

¹ The occurrence of the emp. markers is optional.

- B.2.6. When an NP of a question is emphasised the question marker do is shifted to the right of the emphasised NP from the sentence final position, simultaneously changing the indicative modality to its emphatic realisation. Compare these examples:
- (a) taatta kaDee yanewa-de
 father to the shop go
 Is the father going to the shop?
- (b) taatta-də kaDee yanne

 is it the father to the shop go

 Is it the father who is going to the shop?
- (c) taatta kaDee-de yanne
 father is it to the shop go
 Is it to the shop the father is going?
- B.2.7. It must be stated that wherever the question marker do is shifted from its usual place, the most final place in a sentence after aux., the indicative modality appears in its emphatic realisation. Thus when the so called question words (v. B.1.3.- B.1.7.) are used to derive questions, the aux. of the underlying sentence, if it appears after a verb, it normally takes the emphatic indicative modal form etc.

kawudə gedərə (inne)
Who is at home?

eyaa kohedə yann<u>e</u> he where go Where is he going?

etc.

The change of modality in the above cases to emphatic form may be a special language specific feature which may have no

relevance to the 'emphasis' we are discussing. However, the change is semantically necessary, for, if we do not change the modality to its emphatic $\underline{e}(e)$ form the resulting sentences are not questions. The so called question words do not function as question words if the change is not observed. Instead they express some indefinite and uncertain identity of objects, places etc..

B.2.8. If we want to emphasise the antecedent of a question derived from an equational sentence, the question marker <u>de</u> may be shifted to the right of the antecedent NP, however, in all such cases the consequent NP must be [+def] (it should be made [+def] if it was [-def] when emp. transformation is applied). Consider the following examples:

subəsinhə æmətiwərəyek (newey/nemey)
Subasinha is (n't) a minister.

Q:

subssinha æmatiwarayek (newey/nemey) da Is (n't) Subasinha a minister?

emp.Q:

subssinha-da æmatiwaraya

Is it Subasinha who is the minister?

emp.Q.neg.:

subəsinhə newey/nemey -də æmətiwərəya
Is it not Subasinha who is the minister?

B.2.9. However, when a question derived from a sentence with categorial proposition is emphasised, <u>da</u>, always with auxiliary deletion, is placed after an NP associated with the predicative

adjective. Compare the following sentences:

miniha wæDeTe kæmeti (yi)-de the man the work like does Does the man like the work?

emp. Q:

miniha-də wæDəTə kæməti
Is it the man who likes the work? or,

miniha wæDeTe-de kæmeti Is it the work that the man likes?

Q. neg:

miniha weDeTe kemeti nædde (∠ næti +de)
the man the work like not
man
Does the/not like the work?

emp.Q. neg:

miniha newy/nemey de wæDeTe kæmeti Is it not the man who likes the work?

- B.2.10. It must be stated that in the case of last example, when <u>næddə</u> from the sentence final position, is shifted to the right of <u>miniha</u> (NP), <u>næti</u> has changed to <u>newey/nemey</u>. This suggests that <u>næti</u> and <u>newey/nemey</u> are semantically same but occur in complementary distribution determined by the position of occurrence.
- B.2.11. <u>ma</u> is another marker of emphasis in Sinhalese. It may accompany the other <u>y</u> or <u>tamay</u> (/tamaa) emphatic markers to express the idea of 'the very', definite 'etc. Compare the following sentences:
- i. mahatteya eekə gænə ahanəwa <u>ma-y /mə-tamay</u>.

 the gentleman it about question/ask definitely

 The gentleman (will) ask/question about it definitely.

- ii wedemahatteya-<u>me tamay</u> kataawe kiwwe the physician himself the story tole.

 It was the physician himself who told (us) the story.
- iii miniha-mə tamay mamə dække
 the man the very same I saw
 It is the very same man that I saw.
- iv mama-ma ee wæDee karanna oonæ
 I myself that work do must
 I must do that work myself .
- v tamuse-mə gihilla Tikak hoyəla balənəwa you yuorself go and a little inquire about You yourself go (there) and inquire a bit about (it).
- B.2.12. There may be some other ways of expressing emphasis. I believe that expressions such as wat 'at least; t 'too, also' etc. also express some degree of emphasis. Besides: all these, stress, intonation and even word order may also function as signalling emphasis.

B.3. NEGATION

- **B.3.1.** I do not propose to go into discussions of deep structure syntax and semantic of negation in Sinhalese here. However, I do attempt to introduce a number of negation markers of surface sentences, which are introduced on to terminal strings of underlying deep structures.
- B.3.2. When we want to negate a simple declarative sentence, that is when the deep structure of the sentence is marked for

negation, we introduce nææ (~næti) or newey/nemey according to the proposition of the sentence. If the proposition consists of noun phrase(s) plus a verb or an adjective as the predicate, nææ is introduced after the aux., which is either changed to the emphatic indicative -- ee form, if the predicate is a verb, or deleted completely (= this is the copula aux.) if the predicate is an adjective. Consider these examples:

i lameya paaDam kərənəwa
the child study do
The child is studying.

neg:

lameya paaDam keranne nææ
the child study do not
The child does not study/ The child is not studying.

ii mee malə lassəna- yi this flower beautiful is This flower is beautiful.

neg:

mee male lassene nææ
this flower beautiful (is) not
This flower is not beautiful.

B.3.3. The negative marker new 'no' may occur alone as a response sentential expression. Then it must be understood that new 'no' as a response utterance is equivalent to a complete negative sentence in the deep structures. new here is an elliptical negative sentence. In some instances, this sort of negation is followed by the complete negative sentence as well. Thus new as a response utterance signals negation, whereas the actual negated sentence may be either deleted or retained. However this type of sentences with presentential response expressions are

usually encountered as replies to questions. Consider the follow-ing examples:

Q: tamuse yanəwa-də you go

Are you going?

Response:

nææ 'No'
nææ, mame yanne nææ
no I go not

No, I am not going.

bee 'can not' and epaa 'do not'(v. B.3.8.) too may occur in a similar way. Compare:

bææ, maTə yannə bææ
no I go can't
No, I can not go.

epaa, umba yanna epaa no you go don't No, do not go.

- B.3.4. If the verb of the proposition is the stative, especial—
 -ly existential or possessive verb, <u>indi</u> or <u>tibe</u> 'be', when
 negative marker <u>næ</u> is introduced the whole verb and the aux,
 are usually deleted. Consider the examples given below:
- i amma kaameree innewa mother in the room is (My) mother is in the room.

neg:

amma kaameree næme mother in the room (is) not (My) mother is not in the room.

ii bayisikəlee gæræj ekee tiyenəwa the bicycle in the garage is The bicycle is in the garage.

neg:

bayisikəlee gæræj ekee nææ

the bicycle in the garage (is) not
The bicycle is not in the garage.

iii eyaaTə lamayi dennek innəwa
he children two has
He has two children.

neg:

eyaaTə lamayi dennek næme he children two (has) not He does not have two children.

iv mee #taaTə dalə tiyenəwa
this elephant tusks has
This elephant has tusks.

neg:

mee ætaaTə dalə <u>nææ</u>
this elephant tusks (has) not
This elephant does not have tusks.

- B.3.5. When a sentence consisting of an equational proposition is negated, the negative marker newey is introduced deleting the aux. (which is mostly zero). With regard to these sentences, the negative marker new can not be introduced. Consider these illustrations:
- i mee mahatteya apee palaate graameseeweke this gentleman our of area the headman (is) This gentleman is the headman of our area.

neg:

mee mahatteya apee palaate graamseewska newey/nemey
This gentleman is not the headman of our area.

ii mage putaa dostərə kenek
my son a doctor (is)
My son is a doctor.

neg:

mage putaa dostərə kenek <u>newey</u>
My son is not a doctor.

- B.3.6. When an NP is negated for emphasis, the negative mark--er newey is always introduced after the emphasised NP.Observe the following examples:
- i lameya newey paaDam kəranne (v. B.3.2.)
 the child not study do
 It is not the child who is studying.
- ii mee malə newey lassənə
 this flower not beautiful
 It is not this flower that is beautiful.
- iii amma newey kaameree (cf. B.3.4.)
 mother not in the room
 It is not (my) mother who is in the room.
- iv mee mahatteya <u>newey</u> apee palaate graamsseewske this gentleman not our of the area the headman It is not this gentleman who is the headman of our area.
- B.3.7. Negation is marked differently in relation to certain other moods. If the mood is 'Inferential'(v.8.8.), the negation of such a sentence is usually marked by a negative marker no introduced before the verb. e.g.

seekərə paarə {hada-yi / hadaa-wi } hadannə puluwəni } Sekara the road may construct Sekara may construct the road.

neg:

seekərə paarə no-hada-yi /no-hadaawi no-hadannə puluwəni

Sekara may not construct the road.

There are different periphrastic ways of saying the same thing.

A semtence like.

seekere paare hadene ekak nææ Sekara the road any construction not Sekara may not construct the road.

is similar to.

seekere paare no-hadaawi (see above), in meaning.

Unless one attempts to explaim negation Sinhalese in detail,

one is unable to draw attention to all aspects negation in

Sinhalese syntactically.

- B.3.8. When an imperative sentence is negated, a special imperative negative marker <u>epaa</u> 'do not' is introduced after the aux., which is transformed into the infinitive form after deleting the imperative modality. Observe the difference of the two sentences given below:
- i umba heTa uden-ma waTa banda-pan you tomorrow early in the morning the fence make You 'd better make the fence early tomorrow morning.
- ii umbs heTs uden-ms waTs bandinns epaa
 you tomorrow early in the morning the fence make not
 You 'd better not
 Don't make the fence early tomorrow morning.
- B.3.9. When a hortative or permissive imperative sentence is negated, the negation marker no is introduced before the verb,

as illustrated in the examples:

- i api ee wæDee <u>no-kərəmu</u>
 we that work not let do
 Let us not do that work.
- ii mamə ehaaTə <u>no-yannan</u>
 I there not shall go
 Let me abstain from going there (?)
 (6r, I shall not go there)
- (A periphrastic usage mame ehaaTe no-gihin innan

 I there without going shall remain

 Let me remain without going there

 I 'll remain without going there, is

quite common.)

iii miniha maalu <u>no-genaapuden</u>
the man fish not let bring
not
Let the man/bring (any) fish.

There are several periphrastic usages which should be account—
-ed for in a detailed study of negation in Sinhalese.

- B.3.10. Before concluding this brief section on negation, I introduce a positional variant of næm, namely næti not' as the negative marker occurring in relativised nominal phrases. Side by side with this næti form, the negation of relative construct-ions may be marked by no marker, introduced before the relativ-ised predicate, verb or adjective. Observe the difference in the two usages from the examples cited:
- i yanne <u>næti</u> miniha (< miniha yanne nææ)
 going not the man the man go not
 The man who doesn't go The man does not go

- ii <u>no-yane miniha</u> (< miniha yanne nææ)
 not go the man
 The man who does not go.
- iii giyee næti miniha no-giyə The man who did not go.
- B.3.11. There are a few special negative markers yet to be introduced. In relation to modal auxiliary verbs <u>puluwəni</u> 'can, may' and <u>oonæ</u> 'must, want, need', the negation is realised differently. <u>puluwəni</u> has a special form <u>bææ</u> (~ bæri) as its negative realisation whereas <u>oonæ</u> has two possibilities. Negative marker <u>nææ</u> (~næti) may occur after <u>oonæ</u> as <u>oonæ-nææ</u> 'do not want', or a special form <u>epaa</u> 'do not want' (cf. B.3.8. for imperative negation) may be manifest to mark the negation of sentences with the modal verb <u>oonæ</u>. Compare the examples given below:
- i maTə yannə puluwəni I go can I can go.

neg.:

maTe yanne <u>bææ</u>
I go can not
I can not go.

Cf. also:

yannə <u>bæri</u> miniha go can not the man The man who can not go.

ii maTə bayisikəleyak oonæ
I a bicycle want
I want a bicycle.

neg.: maTə bayisikəleyak oona naa

I a bicycle do not want I do not want a bicycle.

- B.3.12. However, epaa as the neg. marker of Imp. negation, as well as the negation of modal verb oon, must not be confused. There is also some overlapping between the two usages, because the modal verb oon is capable of expressing some degree of command etc., denoted by the Imp. modality.
- B.3.13. Since this is not an attempt at a detailed study of negation in Sinhalese, I conclude my discussion at this point. My aim has been to introduce a number of expressions used to mark different aspects of negation in Sinhalese. The neg. marker no undergoes phonological change. Negation has to be discussed in relation to nominalisation in Sinhalese and some other areas such as coordination and subordination etc. All these must be studied in greater detail if we were to have a proper understand—ing of the negative constructions in Sinhalese. The

B.4. TAG QUESTION FORMATION IN SINHALESE

B.4.1. Tag question formation in Sinhakese is very simple.

Tag is realised as nee(de). It is added to any declarative -simple or complex -- or a negative sentence. (It is interest-ing to note thick the fact that the tag in Ceylon English is
different from that in British English. Instead of the different
tags of British English, Ceylon English has 'no' as its tag,
which may have undoubtedly resulted owing to the influence of

the Sinhalese tag formation . e.g.

You went to Colombo, no?
We are unable to go there, no? etc.)

A few examples for Sinhalese tag formation are given below:

tamuse heTə gamee yanəwa nee(də)
you tomorrow home go no ?
You go home tomorrow, don't you?

minissu adə wæDəTə aawe nææ nee(də)
the men today to work came not no?
Men did not come to work today, did they?

apeTe yanne puluweni nee(de)
we go can no?
We can go, can't we?
etc.

B.5. REPORTED SPEECH

B.5.1. When the speaker reports some news he has heard from someone else, the reporting expression -lu 'I heard' is usually used. e.g.

lankaaweTe mee dawaswele hayyen wahinewa - <u>lu</u>
to Ceylon in these days heavily raining heard

It was heard that Ceylon is having heavy rain these days.
I heard

miniha gee-yi iDəma-yi dekəmə wikka - <u>lu</u>
the man the house and the estate (and) both sold (I heard)
I heard that the man has sold both the house and the estate.

apee mahatteya labana maase raTa yanawa - <u>lu</u>
our 'teacher' next month abroad go (I heard)
I heard that our teacher would be going abroad next month.

B.5.2. If one is reporting somebody elses speech, it can be done by using one of the following expressions, as illustrated:

yi (kiyəla) ' said that'

kiyəla ' " '

e.g.

sarat heTə koləmbə yanəwa- yi kiwwa
sarat heTə koləmbə yanəwa <u>kiyəla</u> kiwwa
sarat heTə koləmbə yanəwa-<u>yi kiyəla</u> kiwwa
Sarat tomorrow Colombo go that said
Sarat said that he would go to Colombo tomorrow.

mahatteya heTə enəwa-yi kiyəla seenə taattaTə kiwwa - lu
the master tomorrow come that Sena to (my) father said (I heard)
I heard that Sena has told (my) father that the master would come
tomorrow.

B.5.3. One has to go into details of syntax of these complex sentences in an attempt to explain the deep syntactic and seman-tic facts they embody. I leave for a detailed study of the syntax of Sinhalese to discuss such matters.

APPENDIX C

C.O. <u>NOMINALISATION IN SINHALESE</u>

C.O.1. In the process of sentence embedding we come across nominalised phrases as well as nominalised clauses. Thus we have to recognise nominalised phrase formation and nominalised clause formation as two distinct processes.

C.1. NOMINALISED PHRASES

C.1.1. Let us suppose that simple sentences consist of a proposition and an aux. The proposition has a verb as the predicate and its associated arguments. The aux. is in the indicative mood besides having other tense and aspect features. In the process of phrase nominalisation, first of all, the aux. (i.e. tense+aspect +Ind) is deleted and then a nominaliser iimə (or illə) is introduced. The logical subject NP of the proposition is usually possessivised. The result is a nominal-ised phrase. However, if the predicate of the proposition is an adjective, the nominaliser that is introduced is not iimə but either a or kama. The phrase nominalisers in Sinhalese may be introduced as:

¹ mana occurs with a few verbs only. e.g. pihamana 'cooking', liyamana 'writing ', kiyamana 'saying' etc.

C.1.2. The derivation of the nominalised phrase,

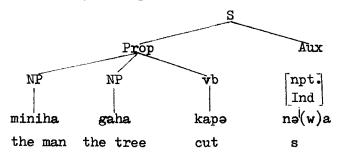
minihage gaha kæpiimə
the man's the tree cutting
The man's cutting (of) the tree, from the

sentence,

miniha gaha kapenewa the man the tree cut

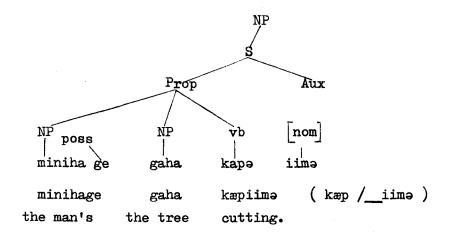
The man cuts the tree, may be derived as follows:

The sentence may be represented as :



By aux. deletion, and

by nominaliser <u>iima</u> introduction together with possessivisation of the subject NP, we get:



In certain cases, although possessivisation takes place, it may not be overtly marked by a possessive marker ge or e etc. in the surface sentence.

C.2. NOMINALISED CLAUSES

- C.2.1. Just as nominalised phrases are derived from simple sentences, the embedded clauses called nominalised clauses are also derived from underlying simple sentences. In doing this in Sinhalese, we have to apply the following rules:
 - i deletion of the modality (i.e. Ind. mood) and
- ii introduction of the clause nominaliser.

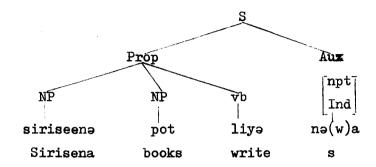
 However, there are constraints such as:
- (a) if the aux. of the sentence is the copula aux., it is deleted and a clause nominaliser is introduced;
- (b) if the nominaliser introduced is zero, the aux. may remain without undergoing any changes such as modality deletion etc.
- C.2.2. There are a number of clause nominalisers and they may be introduced as:

These nominalised clauses may be found embedded in NPs as subject complements or object complements of predicates. Since I am not discussing complex structures in this study I shall simply derive one nominalised clause from an underlying sentence as an illustration. Let us derive the nominalised clause,

siriseenə pot <u>liyənə-ekə</u>
Sirisena books write the fact
The fact that Sirisena writes books,
from the underlying sentence.

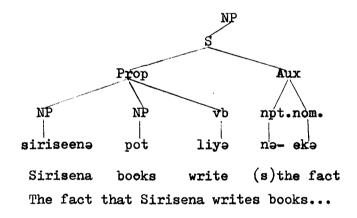
siriseena pot liyanawa Sirisena books write Sirisena writes books.

The sentence may be diagrammed as:



By modality deletion, and

clause mominaliser introduction, we get:



In addendum to this short Appendix, I have a brief account on the so called compounds in Sinhalese.

C.3. <u>COMPOUND</u> <u>NOUNS</u>

C.3.1. The majority of complex nouns, traditionally called compounds, in Sinhalese can be explained as resulting from a process of lexicalisation applied to underlying relativised nominal phrases. Let us by way of example, compare the following complex nouns with their possible underlying relativised nominal phrases and their underlying sentences.

kiri bat 'milk rice'

pol tel 'coconut oil'

wæw wature 'lake water'

muudu-maalu 'sea fish' etc. are complex nouns. I

think the first members of these complex nouns, <u>kiri</u> 'milk',

<u>pol</u> 'coconut', <u>www</u> 'lake'and <u>muudu</u> 'sea' are not adjectives on

the assumption that they can not occur as attributes predicat
-ively. Thus <u>kiri-bat</u> is a lexicalised noun from the relativised

nominal phrase, <u>kiren uyənə bat</u>

with milk cook rice

rice that is cooked in milk., which in turn is the relativised NP of the sentence,

kiren bat uyənəwa
with milk rice cook
(People) cook rice with milk.

The sentence is relativised; the verb deletion takes place (= kiren bat); and finally, the number, definiteness and case markers are deleted of the first member; the result is kiri bat 'milk rice, rice cooked with milk'. Similarly pol tel etc. may be explained as follows:

pol tel 'coconut oil' is from polwelin hindine tel 'oil extract-ed from coconuts'. This nominal phrase may have as its under-luing sentence,

polwelin tel hindinewa
from coconuts oil (is) extract(ed)
(People) extract oil from coconuts:

By relativisation we get, <u>polwalin hindina tel</u>; then by verb deletion , <u>polwalin tel</u>; and finally by the deletion of number, definiteness and case marker, we get pol tel 'coconut oil'.

www wature 'lake water' may be the lexicalisation of wwwee tiyene wature 'water in the lake' or wwwen genaa wature 'water brought from the lake' etc. The underlying sentences may be wwwee wature tiyenewa 'there is water in the lake' or wwwen wature genaawa '(someone) brought water from the lake' etc. The process of derivation of www wature is similar to the way pol tel was derived (pol tel q.v.).

muudu maalu 'sea fish' is the lexicalised form of muude inna maalu 'fish that live in the sea' or of muuden allana maalu 'fish that is caught in the sea', etc. The underlying sentences may be: muude maalu innawa 'fish live in the sea or there are fish in the sea', or muuden maalu allanawa '(People) catch fish in the sea' or some similar. The derivation of muudu maalu is similar to that of pol tel (q.v.)

C.3.2. Consider also a few more examples like the following:

elu mas 'goat meat, mutton'

kos gaha 'jak tree'

maalu dælə 'fishing net'

makulu dælə 'cob web'.

elu mas is from eluwange mas 'meat of goats' which may be from eluwanTə aţiti mas 'meat the goats have' (= inalienable possess-ion) and which may be from eluwanTə mas tiyenəwa or ayiti-yi
'The goats have meat'. Then the process of derivation is: first relativisation; then predicate deletion; the possessivisation of the subject NP; finally, number, definiteness and case deletion (i.e. eluwanTə tiyenə/ayiti mas > eluwanTə mas > eluwange mas elu mas). However, in the case of alienable possession, this process usually comes to an end at the stage of possessivisation

(cf. minihaTə putek innəwa('the man has a son') > minihaTə innə
putaa ('the son the man has got') > *minihaTə putaa > minihage

putaa ('the man's son') but * minis putaa is impossible).

kos gaha 'jak tree' may be from kos jaatiyəTə ayiti gaha 'the tree that belongs to the variety named jak'. The underlying sentence, then may be, gaha kos jaatiyəTə ayiti-yi 'the tree belongs to the variety of trees called jak'. From kos jaatiyəTə ayiti gaha 'the tree that belongs to the variety of trees called jak', we get kos gaha by predicate deletion and the deletion of the expression denoting the 'idea' of 'variety' (=jaatiyə). Thus any name of a tree, plant, fruit etc. can be explained. The so called compounding is a surface phenomenon and lexical-isation etc. explains how such forms have come into being.

maalu dæle 'fishing net' is the lexicalised form of the relative paawicci-kerene -ised nominal phrase, maalu allene dæle 'the net used in catch-ing fish'. The underlying sentence may be maalu allanne dæl paawicci-kerenewa '(People) use nets to catch fish'. By the deletion pf both predicates of the relativised nominal phrase we get maalu dæl(e).

makulu dælə 'cob web' is similar to elu mas (q.v.). The derivation may be stated as: makuluwaTə dælak tiyenəwa('the spider has a web') makuluwaTə tiyenə dælə ('the web that the spider has') makuluwage dælə ('spider's web') > makulu dælə. One may be able to explain these differently. However, all these complex lexical—ised nouns can be explained as having resulted from some under—lying structures.

C.3.3. Except for a few expressions which are formally complex but semantically denote specific objects where apparently no underlying structures are involved -- the so called epithetic compound nouns -- most other complex nouns can be explained as in the above discussion.

All'epithetic compound nouns' such as, <u>haalmæssa</u> 'sprat'

(literal meaning: 'rice fly'), <u>siwuru-horaa</u> 'name of a bird'

(lit. 'robe thief'), <u>gon-kaweDiya</u> 'myna' (lit.'ox bird') etc.

must be treated as any other noun as denoting some object.

APPENDIX D

D.O. CONCORD IN SINHALESE

- D.O.1. I have not recognised the category of number as relevant in the description of either the predicate -- verb and adjective -- or the auxiliary in Sinhalese, because I believe that the category of number has little or no relevance semantically as far as verbs, adjectives or the aux. are concerned. Number is a grammatical category of the noun phrase. However, in certain languages, including some areas of syntax in Sinhalese as well, the 'verbal expressions' show some mark-edness associated with number. I believe that this number markedness is an additional redundant characteristic. An addit-ional marker is added to sentences, usually after the aux., purely by a surface process which we may call 'concord'. Assum-ing that this is correct, (at least, for Sinhalese,) let us examine the areas where concord has a part to play in Sinhalese.
- D.O.2. Concord in Sinhalese, not complex at all. There is no concord between adnominals and head nouns in so called endo-centric constructions which have resulted through the process of relativisation or in some cases, through the process of nominalisation. Furthermore, there is no concord between any (grammatical?) subject NP and the verbal expressions (i.e. both verb + aux.) of sentences when the auxiliary of the sentences in question is marked, among other features for the moods such as, the indicative, benedictive, inferential, certain -ty, obligation and possibility. This leaves us with the major domain of concord in Sinhalese, namely the imperative mood.

Concord is relevant for equational sentences as well, and this will be discussed later in the chapter. Let us first examine concord in Sinhalese in relation to imperative sentences.

D.1. CONCORD OF IMPERATIVE SENTENCES

D.1.1. We have already recognised three classes of imperative sentences. They are:

simple imperatives (v.8.4.2.,8.4.3.;8.6.2. - 8.6.6.) hortative imperative (v.8.4.4.; 8.6.8.,8.6.9.) and permissive imperative (v.8.4.5.;8.6.10.,8.6.11.).

Then within the simple imperative modality we recognised a three-fold grade distinction such as,

respect grade (v 8.4.3.; 8.6.2.)
ordinary grade (v. 8.4.3.; 8.6.3.) and
derogatory grade (v. 8.4.3.; 8.6.5.).

D.1.2. I take it for granted that wherever a simple imperative verbal expression (i.e. verb + simple Imp. aux.) is used in a sentence, a 2P pronoun appears as the agent of the action the speaker requests or commands him to do. In an earlier section we also recognised a three-fold grade distinction within the 2P pronoun (v.2.2.). When we have three identical grades for both 2P pronoun and the simple imperative mood(v.8.4.3.), we may expect some interdependency between them. And this is true. To whatever grade the 2P pronoun belongs, imperative modality must belong to the same grade. Thus 2P pronouns agree in grade with simple imp. mood and this grade concord may be represented as follows:

D.1.3. Then there is number concord as well. The concord in number between the subject NP, namely the 2P pronoun, and the verbal expression consisting of verb + imp. aux., is zero(=\$\textit{\textit{\textit{g}}}\$) or unmarked if the number is singular. Further, even if the number is plural(i.e.[-sg]), no concord is marked with regard to simple imperative sentences which are marked for [+resp] grade. However, in relation to the remaining two grades, simple imperative sentences are marked for concord in number -- that is ff the subject NP, 2P pronoun, is [-sg], the imp. aux. is followed by the [-sg] concord marker la if the imp. aux. is [+ord], and hu if the imp. aux. is [+ dero]. Thus number concord may be stated as:

e.g.

```
tamuse yanəwa
You go. (ord)
```

tamuse<u>la</u> yanəwa<u>la</u>
umbə<u>la</u> paleyal<u>la</u> (< paleyaŋ+<u>la</u>)
You (pl) go (pl. ord)

too gaha kapapiya you the tree cut You cut the tree (= dero)

topi gaha kapepiya(\underline{w}) \underline{u} (\angle -piyə + $\underline{h}\underline{u}$ > piyə+ \underline{u} > piya(\underline{w}) \underline{u}) you (pl) the tree cut You cut the tree (= dero; pl.)

- D.1.4. However, there are at few imperative expressions of the derogatory grade where plural number concord is absent. These are inherently singular . All forms like <u>sdu</u> 'pull', <u>gilu</u> 'swallow' etc, from ..CVCi structure verbs and monosyllabic <u>kaa</u> 'eat', <u>naa</u> 'have a bath' etc., as imp. expressions belong to this special class.
- D.1.5. Next let us examine the number concord of permissive imp. sentences. Here, too, the singular number concord is unmark—ed whereas the plural number concord is marked with some restrict—ions, for it is marked only after the aux. den (v.8.6.10.). The concord marker is <u>la</u>. This <u>la</u> never occurs after the other permissive imp.aux. <u>aawe</u> (v.8.6.10.). Thus [-sg] concord of permissive imp. sentences may be stated as:

(However, syntactically the facts are more complex; if we examine the deep syntax of the permissive semtences, we are bound to realise that this <u>la plural marker after den</u> has survived from <u>la</u> of an embedded simple imperative sentence.)

e.g. :

the boy let go

(You sg.) let the boy go.

kolla giyədella (<-den+la)

the boy let go

(You pl.) let the boy go.

kolla giyəden

D.1.6. No special comcord is marked for hortative imp.sentenc-es, especially when the subject is 1P pronoun with hearer exclu-sive reference. However, when the subject is 1P pronoun [-sg],
with hearer inclusive reference, the [-sg] concord is realised
fused in the imp. hortative <u>mu</u> (v.8.6.9.) realisation. e.g.

mame yannan
I 'll go (or let me go)

api yannan
We 'll go (or let's go).([-hearer])

api yamu
we let go
Let us go ([+hearer]).

D. 2. CONCORD IN EQUATIONAL SENTENCES

D.2.1. There is another class of sentences in Sinhalese, where agreement in number and case has an important role to play. With

regard to equational sentences, the subject NP and the predicate NP must agree in number and case(which is always Objective).

One may not find any aux. realisations in equational sentences in Sinhalese. Since both NPs refer to the same object(s), it is natural that they should be marked for number and case in both places. Consider the following examples:

- i miniha wedek
 the man a physician
 The man is a physician.
- ii minissu guruwaru

 the men teachers

 The men are teachers.

However, the following combinations are ungrammatical, because the NPs do not have the number agreement:

- * miniha guruwaru the man teachers . or,
- * minissu wedek
 the men a physician .

We can not speak of agreement in definiteness, because an NP marked for indefinite feature can not occur as the subject of an equational sentence.

D.2.2. In most linguistic treatises on Sinhalese, these conco-rdial relationships have been treated as singular and plural
inflections of verbs. This may not be true, because, for one
spoken
reason, no verbs in/Sinhalese inflect for singular and plural
number, and for another, the verb can (as in this study) be
described independently of the aux. as well as these concordial

'verhal expressions'are encountered, the plural marker is mostly a separate element (= a morpheme) that has been added to the unmarked singular form. Sematically, I believe, the right place for number is the NP where the reference, to 'things', and not to the verb, and therefore, I think, it is reasonable to explain the concord in number between subject NPs and 'verbal expressions' as some redundant surface characteristic only. In relation to equational sentences, the concord does not produce an equation—al sentence.

BIBLIOGRAPHY

Anthropological Linguistics : (A Publication of the 'Archives

of Languages of the world), Anthro-

-pology Department, Indiana Univer-

-sity.

Foundations of Language : International Journal of Language

and Philosophy, D. Reidel Publishing

Company, Dordrecht, Holland.

General Linguistics : Pensilvania State University.

Indian Linguistics : Journal of the Linguistic Society

of India, Deccan College, Poona 6.

International Journal of American Linguistics (IJAL)

: Indiana University, Baltimore.

Journal of Linguistics : The Journal of the Linguistic

Association of Great Britain,

Cambridge University Press, London.

Language :Journal of the Linguistic Society

of America, Baltimore.

Lingua : International Review of General

Linguistics, North Holland Publish-

-ing 60., Amsterdam.

Papers in Linguistics : Linguistic Research Inc., Illinois.

The Shorter Oxford English Dictionary (SOED)

: Oxford University Press, London.

Transactions of the Philological Society (TPS)

: Journal of the Philological

Society.

Word :Journal of the Linguistic Circle

(UCR) of New York, New York.

University of Ceylon, Review / : University of Ceylon, Colombo.

Alston W.P. 1964 : Philosophy of Language. Prentice Hall,

Inc. Englewood Cliffs, N.J.

Anderson J.M. 1971 : The Grammar of Case. Cambridge Univer-

-sity Press, London.

Antal L.	1966	:	On the Morphology of the Hungarian
A .l. TT	4070		verb, Linguistics 25,pp.5 - 17.
Aoki H.	1970	•	Nez Perce Grammar. University of
	4060		California Press.
Aronson H.I.	1 968	:	Bulgarian Inflectional Morphology.
			Mouton, The Hague.
Bach E.	1964	:	An Introduction to Transformational
			Grammar . Holt, Rinehart and Winston,
			New York.
 	1968	:]	Nouns and Noun Phrases, Bach E.and
	(eds)		Harms R.T.(eds) 1968,pp.90 - 122.
and Harm	s R.T./196	3:	Universals in Linguistic Theory. Holt,
			Rinehart and Winston, New York.
Bazell C.E.	1953	:	Linguistic Form. Istanbul Press.
Bendix E.H.	1 966	:	Componential Analysis of General
			Vocabulary: The semantic structure
			of a set of verbs in English, Hindi
			and Japanese. Indiana University,
			Bloomington.
Biligiri H.S.	1965	2 .	The Sora Verb. Lingua 15,pp.231 - 250.
Bloch B.	1947	:	English Verb Inflection.Language 23,
			pp.399 - 418; reprinted in Joos M.(ed)
			1957 pp.243 - 254.
Bloomfield L	1926	:	A set of postulates for the science
			of language.Language 2,pp.153 - 164;
•			reprinted in Joos M. (ed) 1957,pp.
			26 - 31.
	1933	:	Language. Holt, Rinehart and Winston,
			New York (amd George Allen and Unwin
			Ltd. London. 1935).
Bolinger D.	1948	:	On defining the morpheme, Word 4 No 1.
	1950	:	Rime, Assonance and morpheme analysis,
-			Word 6 No 2.
	1962	:	The Uniqueness of the word, Lingua 12.
	1968		Aspects of Language. Harcourt, Brace
			and World, Inc. New York.
Bos G.F.	1967	:	Categories and Border-line Categories:
· · ·	• •	•	A synchronic study in General Linguis-
			-tics, Adelf M Hakkert, Amsterdam.

Botha R.P.	1968	: The function of the lexicon in Transformational Generative Grammar. Mouton, The Hague.
Brown R.	1 958	: Words and Things : An Introduction to language. The Free Press, New York.
Buse J.E.	1965	: Problems of morphology and classification illustrated from Rarotongan.
Carnap R.	1937	Lingua 15, pp. 32 - 47. : The Logical syntax of Language. Routledge and Kegan Paul Ltd.London.
Carnochan J.	1967	: Word classes in Igbo, Lingua 17,pp. 1 -23.
Carter Rev. C.	1924	: A Sinhalese English Dictionary. (New Printing, 1965) M.D. Gunasena and Co.Ltd. Colombo.
Chafe W.L.	1970	: Meaning and the Structure of Language. The University of Chicago Press.
Chao Y.R.	1968	: Language and symbolic systems. Cambridge University Press, London.
Chapin P.G.	1967	: On the Syntax of word derivation in English. The MITRE Corporation .
Chomsky N.	1957	: Syntactic Structures. Mouton, The Hague.
	1964	: Current Issues in Linguistic Theory. Mouton , The Hague.
	1965	: Aspects of the Theory of Syntax. MIT Press, Cambridge, Massachusetts.
Company provide and some distribution of the state of the	1966	: Topics in the Theory of Generative Grammar.Mouton.The Hague.
· · · · · · · · · · · · · · · · · · ·	1966(a)	:The current scene in Linguistics: Present Directions. College English 27,pp.587 - 595; reprinted in Reibel D,A. and Schane S.A.(eds)1969,pp.3-12.
	1968	:Language and Mind.Harcourt, Brace and World, Inc. New York.
	1969	: Deep structure, surface structure and semantic interpretation. Studies in General and Oriental Linguistics. Tokyo; reprinted in Steinberg D.D. and Jakobo-vits L.(eds) 1971, pp. 183 - 216.

Chomsky N. 1970	: Remarks on nominalisation. Jakobs R.A. and Rosenbaum P.S. (eds) 1970, pp. 184-221.
and Halle M. 196	: The Sound Pattern of English .Harper and Row, New York.
Christophersen P. and	
Sandved A.O. 1969	: An Advanced English Grammar. Macmillan.
Coates W.A. and	
De Silva M.W.S 1960	: The Segmental Phonemes of Sinhalese. U.C.R.XVIII. 3 - 4. pp.163 - 175.
Costa R.M. 1972	: Let's solve let's. Papers in Linguis-
3,12	-tics Vol 5 No 1.pp.141 - 144.
Crystal D. 1967	: Word classes in English. Lingua 17.
	pp. 24 - 56.
1971	: Linguistics. Penguin.
Curme G.O. 1935	: Parts of Speech and Accidence.D.C.
.,,,,	Heath and Co. Boston.
Daniels F.J. 1967	: Word classes in Japanese. Lingua 17.
•	pp•57 - 87•
De Abrew K.K.D. 1963	: A syntactical study of the Verbal
	Peice in Colloquial Sinhalese. Un-
	-published M.A.thesis, University of
	London.
De Groot A. 1949	: Structural Linguistics and Syntactic
	laws. Word 5 No 1.
De Saram D.D. 1964	: The Nominal in Colloquial Sinhalese,
	Unpublished M.A.thesis, Cornell Univer-
	-sity. (microfilm)
De Saussure F 1959	: Course in General Linguisties. Philo-
	-sophical Library, New York.
De Silva M.W.S. 1957	: The Verbal Piece in Colloquial Sinha-
	-lese - A Phonological study. Unpublish-
	-ed M.A. thesis, University of London.
1958	: Gender in Colloquial Sinhalese. U.C.R.
	XVI 3-4, pp119 - 124.
1959	: A note on syllable quantity in Sinha-
	-lese metre. U.C.R.XVII. 1 - 2, pp.51
	- 54•

De Silva M.W.S.	1959	: Syllable structure in spoken Sinhalese. U.C.R. XVII. 3 - 4, pp.106 - 116.
**************************************	1960	: Verbal categories in spoken Sinhalese. U.C.R.XVIII. 1 -2, pp.96 - 112.
the appropriate the	1963	: Wigrahatmaka Wagwidyawa. Official Language Department, Ceylon.
	1967	: Effects of Purism on the evolution of the written language - Case history of the situation in Sinhalese.Linguis-
	1970	-tics 36.pp. 5 - 17. : Some linguistic peculiarities: of Sinhalese Poetry. Linguistics 60.
- Annichmentary	1973	: Convergence in Diglossia (forthcoming)
Dharmadasa K.N.	0. 1967	: Spoken and Written Sinhalese - A Contrastive study. Unpublished M.Phil. thesis, University of York.
Dingwall W.O.	1963	: Transformational Grammar: Form and Theory. Lingua 12.
Disanayaka J.B.	1969	: Bhashawaka rata samudaya .Lake House Investments Ltd. Colombo.
Ebeling C.L.	1960	: Linguistic units .Moutonand Co. Gravenhage.
Elson B.and Pic	kett V .1 96	7: An Introduction to Morphology and Syntax. Summer Institute of Linguistics, California.
Fairbanks G.H.		, , , , , , , , , , , , , , , , , , ,
Gair J.W. and		
De Silva M.W.S.	1968	: Colloquial Sinhalese. Cornell Univer- -sity, Ithaca, New York.
Fillmore C.J.	1966	: Toward a modern theory of Case.Project on Linguistic Analysis Report No 13 (1966) p.1 - 24. Reprinted in Reibel D.A. and Schane S.A.(eds)1969,pp.361-375.
	1968	: The Case for Case. Bach E. and Harms R.T. (eds) 1968, pp.1 - 88.
**************************************	1971	: Types of lexical information. Steinberg D.D. and Jakobovits L.A. (eds) 1971, pp. 370 - 392 .

Firth J.R.	1957	: Papers in Linguistics 1934 - 1951.
	(eds)	Oxford University Press.London.
Fodor J.and Katz	· · · · · · · · · · · · · · · · · · ·	: The Structure of Language: Readings
		in the Philosophy of Language.
		Prentice-Hall, Inc. Englewood Cliffs,
		New Jersey.
Fowler R.	1963	: Meaning and the theory of the morpheme.
•		Lingua 12.
Fries C.C.	1952	: The Structure of English.Longmans.
Frisch J.A.	1971	: A formal analysis of Sinhalese kinship
		terms. Anthropological Linguistics,
		Vol 13 No 3 pp.100 - 105.
Fudge E.C.	1970	: Phonology .Lyons J.(ed) 1970,pp.76 -
		95•
Gair J.W.	1966	: Colloquial Sinhalese Inflectional
		Categories and parts of speech. Indian
		Linguistics Vol 27.
	1968	: Sinhalese Diglossia. Anthropological
		linguistics Vol 10 No 8.
	1970	: Colloquial Sinhalese clause structure.
		Mouton, The Hague.
Garvin P.	1957	: On the Relative Tractability of morpho-
		-logical data. Word 8.
and the second	1964	: On Linguistic Method. Mouton, The Hague.
Gleason H.A.	1961	: An Introduction to Descriptive Linguis-
****		-tics (Revised edition). Holt, Rinehart
		and Winston, New York.
Gleitman L.R.	1965	: Coordinating conjunctions in English.
•		Language 41. pp.260-293. Reprinted in
		Reibel D.A. and Schane S.A. (eds) 1069,
		pp. 80 - 112.
Greenberg J.H.	1957	: Essays in Linguistics. The University
		of Chicago Press.
and the state of t	1963	: Universals of Language. The MIT Press,
		Cambridge, Massachusetts.
Gruber J.	1967	: Functions of the lexicon in formal
		descriptive grammars. (Technical
		memorandum series.)

Gunasekara A.M.	1891	: A Comprehensive Grammar of the Sinha-
		-lese Language. Sri Lanka Sahitya
		Mandalaya (Academy of Letters), Colombo.
Gunter R.	1972	: English Derivation. Journal of Linguis-
	.,,,-	-tics Vol 8 No 1, pp.1 -19.
Haas W.	1 954	: On defining linguistic units. TPS 1954
	.,,,,	pp•54 - 84•
Halliday M.A.K.	1970	: Language structure and Language Funct-
	,,,,,	-ion. Lyons J.(ed) 1970,pp.140-165.
Harris Z.S.	1 942	: Morpheme altermants in linguistic
110111111111111111111111111111111111111	1776	analysis.Language 18,pp.169-180.Reprint-
		-ed in Joos M.(ed) 1957,pp.109-115.
	1946	: From morpheme to utterance.Language 22,
	1,740	pp. 161-183. Reprinted in Joos M. (ed)
		1957 , pp.142 - 153.
Hill A.A.	1958	: Introduction to Linguistic Structures:
	•,,,,-	From sound to sentence in English.
		Harcourt, Brace and World, Inc. New York.
Hockett C.F.	1947	: Problems of Morphemic analysis. Language
	1741	23, pp. 321 -343. Reprinted in Joos M.
		(ed) 1957, pp.229 -242
	1954	: Two models of grammatical description.
	1724	Word 10.pp.210 - 231.Reprinted in Joos
		M.(ed) 1957,pp.386 - 399.
	1958	: A Course in Modern Linguistics. The
	.,,,	Macmillan Co. New York.
Hoijer H.	1967	: Word classes in Navaho.Lingua 17, pp.
	.,.,	88 -102.
Householder F.W	• 1967	: Word classes in Ancient Greek.Lingua 17,
	, . ,	pp.103 - 128.
Jakobs R.A. and		
Rosenbaum P.S.	(19 68)	: English Transformational Grammar.
	(1) 17	Blaisdell Co. Waltham. (and Ginn and Co.
		Ltd. London 1970.)
	1970	: Readings in English Transformational
	.,,,,	Grammar.Ginn and Co. Waltham, Massachu-
		-setts.
Jacobson R.	1948	: Russian Conjugation . Word 4 No. 3.
	., +0	

Jacobson S.	1964	: Adverbial Position in English.Uppsala, Stockholm.
Jayawardana R.P.	•T•1971	: Case in Sinhalese. Unpublished Ph.D. thesis. University of London.
Jespersen 0.	1924	: The Philosophy of Grammar.George Allen and Unwin Ltd. London.
	1933	: Essentials of English Grammar. George Allen and Unwin Ltd. London.
Joos M.(ed)	1957	: Readings in Linguistics 1 .The Univer- -sity of Chicago Press.
Kachru Y.	1966	: An Introduction to Hindi Syntax. University of Illinois.
Kandiah T.	1968	: Transformational Grammar and the Layering of structure in Tamil. Journal of Linguistics, Vol 4, pp. 217 - 245.
Katz J.J. and		
Postal P.M.	1 964	: An Integrated theory of Linguistic
		Description. The MIT Press, Cambridge, Massachusetts.
Kekulawala S.L.	1964	: The Phonology of the Noun in Colloquial Sinhalese. Unpublished M.A.thesis, Univer- -sity of London.
Kelkar A.R.	1958	: The Phonology and Morphology of Marathi. (Ann Arbor University Microfilms, Inc.) Ph.D. dissertation, Cornell University.
Kilgore W.J.	1968	: An Introductory Logic. Holt, Rinehaft and Winston, Inc. New York.
Kiparsky P and		
Stall J.F.	1969	: Syntactic and semantic relations in Panini. Foundations of Language, Vol 5.
Koutsoudas A.	1962	: Verb Morphology of Modern Greek, A descriptive analysis. Mouton, The Hague.
Kramsky J.	1 969	: The word as a linguistic unit. Mouton, The Hague.
Kratochvil P.	1967	: Word classes in Modern standard Chinese, Lingua 17, pp.129 - 152.
Krishnamurthi B	h .1 965	: The word as a linguistic unit. Journal of Osmania University, Vol 3, pp. 73-94.

Kumaratunga M.	1935	: Kriya wiwaranaya.K.A.Ariyadasa and Co. Maradana.
	1937	: Wyakarana wiwaranaya. (Revised 2nd edition) M.D.Gunasena and Co.Ltd.Colombo (1958).
Lakoff G.and		
Peters S.	1 966	: Phrasal conjunction and symmetric
		Predicates.Mathematical Linguistics
		and Automatic Translation, Harvard compu-
		-tation laboratory, Report No NSF 17, pp.
		VI.1 - 49. Reprinted in Reibel D.A. and
		Schane S.A.(eds) 1969,pp.113- 142.
Lakoff G.	1970	: Pronominalisation Negation and the
		Analysis of Adverbs. Jacobs R.A. and
		Rosenbaum P.S. (eds) 1970, pp. 145-165.
****	1970	: Irregularity in Syntax. Holt, Rinehart
		and Winston, Inc. New York.
	1971 a	: Presupposition and relative well-formed-
		-ness. Steinberg D.D. and Jokobovits L.A.
		(eds) 1971,pp.329 - 340.
	1971 ъ	: On Generative Semantics.Stainberg D.D.
		and Jakobovits L.A.(eds) 1971,pp.232- 296.
Langacker R.W.	1968	: Language and its Structure: Some funda-
		-mental Linguistic concepts.Harcourt,
		Brace and World, Inc. New York.
Langdon M.	1970	: A Grammar of Diegneno(The Mesa Grande
		Dialect). University of California Press.
Langendoen D.T.	1969	:The study of symtax. Holt, Rinehart and
		Winston, Inc. New York.
· · · · · · · · · · · · · · · · · · ·	1970	: Essentials of English Grammar. Holt,
		Rinehart and Winston, Inc. New York.
Lees R.B.	1960	: The Grammar of English Nominalisation.
		IJAL 26.
Lejni eks V.	1967	: The system of English suffixes.Linguis-
		-tics 29,pp.80 - 103.
Lester M	1971	: Introductory Transformational Grammar
		of English. Holt, Rinehart and Winston,
		Inc. New York.

Long R.B.	1961	: The sentence and its parts. The University of Chicago Press.
Lounsbury F.G.	1953	: The method of descriptive morphology: Oneida Verb Morphology .pp.11-24 Re-
		-printed in Joos M. (ed) 1957,pp.379 - 385.
Lyons J.	1966	: Towards a 'notional' theory of the
		parts of speech. Journal of Linguistics
		Vol 2 No 2,pp.209 -236.
	1968	: Introduction to Theoretical Linguistics.
		Cambridge University Press.
(ed)	1970	: New Horizons in Linguistics. Penguin.
***************************************	1970	: Generative Syntax.Lyons J. (ed) 1970,
		pp.115 -139.
Martinet A.	1964	: Elements of General Linguistics.Faber
		and Faber Ltd. London.
Matthews P.H.	1965	: The Inflectional Component of a Word
		and Paradigm grammar. Journal of Linguis-
		-tics Vol 1 No 2,pp.139-171.
	1 967a	: Word classes in Latin. Lingua 17, pp. 153 - 181.
	1967ъ	: The Main Features of Modern Greek verb
		Inflection. Foundations of Language
		Vol 3,pp.261 -283.
	1970	: Recent Developments in Morphology.Lyons
		J.(ed) 1970,pp.96 - 114.
	1972	: Inflectional Morphology: A theoretical
		study based on aspects of Latin verb
		conjugation.Cambridge University Press.
McCawley J.D.	1 968	: The role of semantics in a grammar.
		Bach E. and Harms R.T. (eds) 1968, pp. 124 -169.
	1970	: Where Do Noun Phrases Come From?. Jacobs
		R.A. and Rosenbaum P.S. (eds) 1970, pp.
		166 - 183.
Newman S.S.	1 948	: English Suffixation- A Descriptive
		Approach. Word 4 No 1.
	1967	: Word classes in Yokuts. Lingua 17,pp.
		182 - 199.

Newmark L.	1 962	: An Albanian Case system.Lingua 11,pp. 313 - 321.
Nicholas C.W.an	d	
Paranavitana S.	1961	: A Concise History of Ceylon. Ceylon University Press, Colombo.
Nida E.A.	1946	: Morphology - The descriptive analysis of words. University of Michigan Press.
	1948	: The identification of morphemes.Langu- -age 24,pp.414 - 441.Reprinted in Joos M. (ed) 1957,pp.255 - 271.
Palmer F.R.	1965	: A Linguistic study of the English Verb. Longmans.
	1967	:(Word classes in)Bilin. Lingua 17,pp. 200 - 209.
	1971	: Grammar. Penguin.
Paranavitana S.	1970	: Inscriptions of Ceylon, Vol 1, Early Brahmi Inscriptions. Department of
		Archaeology, Ceylon.
Postal P.M.	1964	: Constituent Structure: A study of Contemporary models of syntactic description. Mouton, The Hague.
programmer-recordance	1964a	: Underlying and Superficial Linguistic Structure. Harward Educational Review 34,pp.246-266. Reprinted in Reibel D.A.
	1 966	and Schane S.A. (eds) 1969, pp.19 -37. On so called Pronouns in English. F Dinneen (ed) The 19th monograph on Languages and Linguistics (Washington
		D.C.: Georgetown University Press. Reprinted in Reibel D.A. and Schane S.A. (eds) 1969,pp. 201-
**************************************	1 968	: Aspects of Phonological Theory. Harper and Row, New York.
Poutsma H.	1914	: A Grammar of Late Modern English.Part II. The Parts of Speech, Section I A. P Noordhoff, Groningen.

Quirk R.		
Greenbaum S.		
Leech G. and	1972	: A Grammar of Contemporary English.
Svartvik J.		Longman, London.
Reibel D.A. and		
Schane S.A. (ed	s)1969	: Modern Studies in English. Readings
		in Transformational Grammar.Prentice-
		Hall, Inc. Englewood Cliffs, New Jersey.
Roberts P.	1967	: Modern Grammar. Harcourt, Brace and
		World, Inc. New York.
Robins R.H.	1959	: In Defence of WP .Transactioms of the
		Philological Society, pp. 116-144.
	1964	: General Linguistics:An Introductory
		Survey. Longmans.
	1965	: Some Typological observations on Sunda-
		-nese Morphology. Lingua 15,pp.435-450.
	1967	: Word classes in Yurok. Lingua 17,pp.
		210 - 229.
	1967a	: A Short History of Linguistics.Longmans.
Rosenbaum P.S.	1967	: The Grammar of English Predicate Comple-
		-ment Constructions. The MIT Press,
		Cambridge, Massachusetts.
Ross J.R.	1969	: Adjectives as noun phrases. Reibel D.A.
		and Schane S.A. (eds) 1969, pp. 352-360.
Russell B.	1900	: A critical exposition of the Philosophy
		of Leibniz.George Allen and Unwin Ltd.
		London.
Sapir E.	1921	: Language. Harcourt, Brace and World, Inc.
		New York.
and Hoijer	н. 1967	: The Phonology and Morphology of the
		Navaho Language. University of Califor-
		-nia Press.
Schane S.A.	1 968	: French Phonology and Morphology. The
		MIT Press, Cambridge, Massachusetts.

Schibsbye K.	1970	: A Modern English Grammar (2nd edition). Oxford University Press, London.
Schlauch M.	1967	: Language and the study of Languages Today. Oxford University Press, London.
Schultink H.	1962	: On Word Identity. Lingua 11,pp. 354-362.
Scott F.S.,		
Bowley C.C.,		
Brockett 8. S,		
Brown J.G. and		
Goddard P.R.	1968	: English Grammar. A Linguistic study
		of its classes and structures. Heinemann
		Educational Books, London.
Sebeok T.A.(ed)	1 966	: Current Trends in Linguistics, Vol III.
		Mouton, The Hagur.
Singh A.B.	1966	: Hindi Verbs - An Outline. Indian Linguis-
		-tics, Sukumar Sen Felicitation Volume,
		pp. 154 - 171.
Smith C.S.	1969	: Ambiguous sentences with And. Reibel
		D.A. and Schane S.A. (eds) 1969,pp.
		75 - 79•
Steinberg D.D.	and	
JAKOBOVITS L.A.	(eds) 1971	: Semantics. An Interdisciplinary Reader
		in Philosophy, Linguistics and Psycho-
		-logy. Cambridge University Press.
Teeuw A.	1962	: Some problems in the study of word
		classes in Bahasa Indonesia. Lingua 11,
		pp. 409 - 421.
Tiwary K.M.	1969	: Panini's Description of Sanskrit Nomi-
•		-nal Compounds. University Microfilms,
		Inc. (Ann Arbor) Michigan.
Trnka B.	1962	: On the morphological classification of
		words . Lingua 11,pp.422 -425.
Tyler S.A.	1 969	: Koya : An Outline Grammar, Gommu dialect.
		University of California Press.

Uhlenbeck E.M.	1962	Limitations of Morphological Processes
		- Some Preliminary Remarks. Lingua 11,
		pp•426 - 432•
	1963	An Appraisal of Transformation theory.
		Lingua 12.
Ullmann S.	1962	Semantics - An Introduction to the
		Science of Meaning. Basil Blackwell
		and Mott Ltd. Oxford.
Van Wyk E.B.	1967	(Word classes in) Northern Sotho.
		Lingua 17, pp.230-261.
Weinreich, U.	1966 :	Explorations in Semantic Theory. Sebeok
		T.A. (ed) 1966, Vol III.Reprinted in
		Steinberg D.D. and Jakobovits L.A.(eds)
`		1971, pp. 308 - 328.
Wells R.S.	1947 :	Immediate Constituents . Language 23,
		pp, 81 - 117. Reprinted in Joos M. (ed)
		1957, pp. 186 - 207.
Wickramasuriya	B .s.s.a.1 965	: The Nominal Phrase in Sinhalese and
		its bearing on Sinhalese English. Un-
		2published M.A. thesis, University of
		London.
Zandvoort R.W.	1962 :	A Handbook of English Grammar, (2nd
		edition). Longmans, Green and Co.Ltd.
		London.
