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I picked up Professor Madhav Deshpande's book in November 2020. These are my notes from his book. While studying from his book, I explored a variety of relevant resources available on the WWW. These notes rely heavily on those wonderful resources. These notes are a unification of what I could find on various topics as seen from my perspective.

1 Introduction

The book begins with an overview of Sanskrit that we shall cover below. It touches upon the language's history and evolution, writing system, sounds, grammar, and syntax.

1.1 Grammar

Sanskrit (संस्कृतम्), like Greek and Latin, is an *inflected* language. This means it shows alteration in form especially by adding affixes. The bulk of grammatical information is carried by morphology (i.e. the rules for forming admissible words).

A morpheme which is the minimal meaningful language unit, is of one of these types:

- 1. nominal stem (adjectives, pronouns, and indeclinables(अव्ययम्))
 - primary
 - secondary
 - derived from other nominals via affixation (e.g. कुरु + अ = कौरव, नर + त्व = नरत्व)
 - derived from verbal roots via affixation (e.g. गम् + अन = गमन, कृ + तृ = कर्तृ)
 - compounds (e.g. नर + पति = नरपति, चक्र + पाणि = चक्रपाणि)
- 2. verbal root (धातुः)
 - primary
 - secondary
- 3. indeclinables (अव्ययम्)
 - particles (e.g. उपरि)
 - pre-positions (e.g. अधि, परि, अनु)
 - post-positions
 - adverbs (e.g. सततम्)
 - connectives (e.g. च, वा)
 - (occasionally) nouns

The nominal stem is characterized by gender as an *intrinsic property* and it is grammatical, usually unrelated to semantics (though the living beings are usually masculine or feminine). There are three genders:

- masculine,
- feminine, and
- neuter

Between masculine and feminine, the former is *generic*, meaning it takes precedence. For pronouns, neuter is the most generic.

Declension of nouns (as we shall later see, declension serves the same purpose that prepositions serve in English) is affected by several factors such as their

- gender (masculine, feminine, neuter),
- final sound or sounds of the stem (e.g. अकारान्त, न्-कारान्त),
- number (singular, dual, and plural), and
- case (प्रथमा : nominative I, द्वितीया : accusative II, तृतीया : instrumental III, चतुर्थी : dative IV, पञ्चमी : ablative V, षष्ठी : genitive VI, सप्तमी : locative VII, सम्बोधनम् : vocative VIII). The following list may help describe the usual purpose of cases:
 - 1. nominative serving as or indicating the subject of the verb (कर्ता)
 - 2. accusative serving as or indicating the (direct) object of the verb (कर्म)
 - 3. instrumental serving or acting as a means or aid (साधन, करण)
 - 4. dative serving as the *(indirect) object* or the recipient (beneficiary) of the action of the verb (सम्प्रदानम्)
 - 5. ablative indicating the source or separation of the agent, instrument, or location (अपादानम्)
 - 6. genitive expressing ownership (–)
 - 7. locative designating the *place or state or action* denoted by the verb (अधिकरणम्)
 - 8. vocative identifying the person being addressed (सम्बोधनम्)

Here is the declension of a masculine अकारान्त word देव:

Singular (एकवचनम्)	Dual (द्विवचनम्)	Plural (बहुवचनम्)	
देवः	देवौ	देवाः	प्रथमा
देवं (देवम्)	देवौ	देवान्	द्वितीया
देवेन	देवाभ्यां (देवाभ्याम्)	देवैः	तृतीया
देवाय	देवाभ्यां (देवाभ्याम्)	देवेभ्यः	चतुर्थी
देवात्	देवाभ्यां (देवाभ्याम्)	देवेभ्यः	पञ्चमी
देवस्य	देवयोः	देवानां (देवानाम्)	षष्ठी
देवे	देवयोः	देवेषु	सप्तमी
हे देव	हे देवौ	हे देवाः	सम्बोधनम्

The verbal system is more complex and in the vedic system it is even more so [than the classical system]. The book describes complexities of the vedic verbal system and mentions that classical verbal system gradually got rid of a lot of constructs from the former.

Here is an overview of the complexities of the grammar of the vedic language:

- 1. Verb roots (धातवः) are generally of two types: athematic and thematic.
 - (a) Athematic: Variable accent¹ and variable stem to which *terminations are directly attached* (e.g. अस् + ति = अस्ति)
 - (b) Thematic: Invariable accent and invariable stem followed by the thematic vowel अ before the termination (e.g. बुध् + अ + ति = बोधिति). This helps make various verb forms more regular as the complex interactions between the root-final consonant and suffix-initial vowel are prevented by the intervening अ.
- 2. A verb has a single *root*, however, in Vedic Samskritam it may have many *stems*². Consider the following forms (root, stem, affixes) with respect to a single verbal root गम् which means "to go". Forms depend upon *voice*, *number*, and *person* of the *agent* (कर्ता), but for brevity, we show the form only³ for the singular (एकवचनम्), active (कर्तरि) voice, and third person (प्रथम प्रवः):
 - (a) Tenses:
 - i. Present (लट् गच्छति)
 - ii. Aorist⁴ (expressing action (especially past action) without indicating its completion or continuation) (কুভু अगमत्)
 - iii. Imperfect Past (लङ् अगच्छत्)
 - iv. Perfect (लिट् जगाम)
 - v. Future (ल्लंट् गमिष्यति)
 - (b) Moods:
 - i. Indicative (simple declarations) (लट् गच्छति)
 - ii. Injunctive (could indicate intention) (जिगमत्)
 - iii. Subjunctive (typically used to express various states of reality such as wish, emotion, judgment etc.)
 - iv. Optative (wish, request, or command) (गच्छेत्)
 - v. Imperative (command or request) (गच्छतु)
 - (c) Meanings of the present tense stems:
 - i. Indicative (simple declarations)(लट् गच्छति)
 - ii. Intensive (denotes stronger, more forceful, or more concentrated action relative to the root on which the intensive is built) (जङ्गम्यते)

¹Accent or Stress in linguistics is the relative emphasis or prominence given to a certain syllable (unit of speech sounds) in a word or to a certain word in a phrase or sentence

²A stem is that part of a word that inflectional affixes attach to

³See here for a programmatic interface to all the forms of गम्

⁴There are several aorist tense forms in Samskritam

- (d) Participle forms indicating tenses and voices (these forms depend on the gender of the nominal they modify):
 - i. Past Passive (गत, गता)
 - ii. Past Active (गतवत्, गतवती)
 - iii. Present Active (गच्छत्, गच्छन्ती)
 - iv. Present Middle (गच्छमान, गच्छमाना)
 - v. Present Passive(गम्यमान, गम्यमाना)
 - vi. ...
- 3. Verb conjugations could also be one of
 - (a) Primary
 - (b) Causative
 - (c) Intensive
 - (d) Desiderative (a verb formed from another and expressing a desire to do the act denoted by the root verb)
- 4. All of this clearly means that the number of derived forms was very large. See Table 6 for a more complete list of verb conjugations and related forms.

The verbal form complexity was greatly reduced in the classical language. The so-called কাকাৰ্যাঃ show a glimpse of a plethora of forms that a verbal root leads to:

The language evolved to favor nominal sentences over verbal sentences.

The most remarkable feature of the classical language is the *compounds* (especially their phenomenal length). Here is an example from Jayadeva's गीतगोविन्द :

The author believes that several changes occurred to the vedic Sanskrit that Panini grammarized. There was also the influence of local languages. In spite of that, because of Panini's efforts, the language established itself as an "elite language". In such evolution, the language's *surface forms*⁵ were retained.

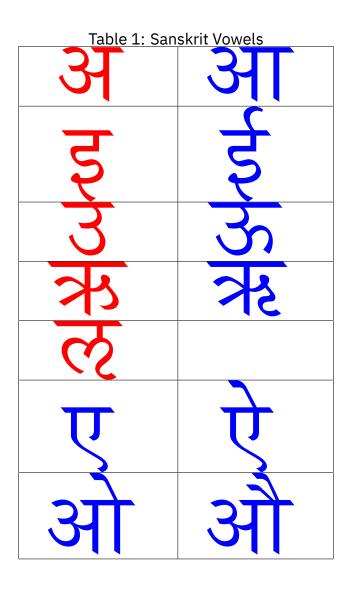
2 The संस्कृत Alphabet

2.1 Basics

2.1.1 Vowels (when not combined with consonants)

There are 13 vowels of which 5 are short (न्हस्व) and 8 are long (दीर्घ). Not combined with consonants, here they are:

⁵Surface form of a word is the form of a word as it appears in the text (e.g. "goes" is a surface form of the verb "go"). Contrast it with the lexical form which consists of things such as the root, the part of speech etc.



In addition to these 13 *independent* vowels, there are two "add-on signs" that, like other vowels, conjugate with consonants:

1. ं - अनुस्वारः

2. ः - विसर्गः

One last vowel-like letter is "अवग्रह" which elongates the pronunciation of a preceding vowel: ऽ . The independent vowels conjugate with consonants and create "add-on signs" that we will see below.

There are 33 consonants and 2 special consonant clusters. The arrangement is according to the location and mechanism of sound production:

Table 2: Sanskrit Consonants					
Velar (Guttral) (कण्ठ्य)	क	ख	ग	घ	ङ
Palatal (मूर्धन्य)	च	छ	ज	इन	ञ
Cerebral (तालव्य)	ਟ	ਰ	ड	ढ	ण
Dental (दन्त्य)	त	थ	द	ध	न
Labial (ओष्ठ्य)	प	फ	ब	भ	म
Semivowels	य	र	ल	व	
Sibilants (hissing sound)	श	ष	स		
Aspirate (rush of air)	ह				
Special consonant clusters	क्ष	ज्ञ			

Table 3 shows the *phonetic analysis* of the Sanskrit Alphabet. In that table, 'Voice' feature refers to *sonorous vibration*, 'Asp' (aspiration) feature refers to a *rush of air*, and 'Nasal' refers to sound generation with the passage of air through nose (and not mouth⁶). If a feature is present, a '+' preceeds it (e.g. '+Voice' – generation of a sonorous vibration) and if a '-' preceeds it, that feature is absent (e.g. '-Asp' – no rush of air).

Figure 1 (taken from Wikipedia) shows the places where the sound is produced in its audible form⁷.

We have already seen the Sanskrit alphabet in Tables 1 and 2. In the written form, when one consonant conjugates with one vowel, we see an alternate representation. For example, when क combines with इ, the resulting conjugate is written as कि and not क.इ.

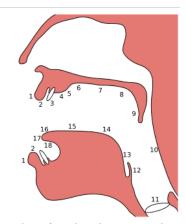
These are collectively called the "add-on vowel signs" and they look like below (note that each of them has a Unicode codepoint which means that it is recognized as a distinct

⁶Nearly all nasal consonants are nasal occlusives, in which air escapes through the nose but not through the mouth, as it is blocked (occluded) by the lips or tongue.

⁷Articulation means the aspect of pronunciation that involves bringing articulatory (speech) organs together so as to shape the sounds of speech.

Table 3: Phonetic Analysis

Table 5. Thenetie / mary ale								
Places of Articulation	Stop -Voice -Asp	Stop -Voice +Asp	Stop +Voice -Asp	Stop +Voice +Asp	Stop +Voice -Asp +Nasal	Semi- vowels +Voice -Asp	Sibilants +Voice +Asp	Sibilants -Voice +Asp
कण्ठ्य	क	ख	ग	घ	ङ		ह	O :
मूर्धन्य	च	छ	ज	झ	ञ	य अनुनासिक य		श
तालव्य	ਟ	ਰ	ड	ढ	ण	₹		ঘ
(11(7)-4			9	_	- 1			7
दन्त्य	त	थ	द	। ध	न	ਲ		स
						अनुनासिक ल		
ओष्ठ्य	प	फ	ब	भ	म	व		
						अनुनासिक व		



Places of articulation (passive & active):
1. Exo-labial, 2. Endo-labial, 3. Dental, 4.
Alveolar, 5. Post-alveolar, 6. Pre-palatal, 7.
Palatal, 8. Velar, 9. Uvular, 10. Pharyngeal,
11. Glottal, 12. Epiglottal, 13. Radical, 14.
Postero-dorsal, 15. Antero-dorsal, 16.
Laminal, 17. Apical, 18. Sub-apical

Figure 1: Places of Articulation

character in a writing system (in this case देवनागरी)). There is no add-on vowel sign for अ ; when conjugated with अ , the consonant simply loses the विरामः – ् . Any consonant should conjugate with these add-ons, the Table 4 below uses ' त्' as an example.

Thus the representation of a single consonant like Ψ is a combination of the base consonant Ψ and the vowel \Im . This document treats Ψ and Ψ interchangeably unless noted otherwise. The word कारः in Samskritam grammar denotes the sound associated with a letter or (occassionally), a word. For example, when the vowel \Im combines with any consonant an \Im कारः results, when the vowel \Im combines with any consonant an \Im कारः results, and so on.

Table 4: Add-on Vowel Signs with the consonant 'त्'

Add-on sign codepoint (decimal)	Add-on sign	Its conjugation with 'त्'	Corresponding vowel
	_	त	अ
2366	ा	ता	आ
2367	ि	ति	इ
2368	ी	ती	इ इ उ
2369	ु	तु	
2370	ू	तू	<u></u> ऊ
2371	ृ	तृ	来
2372	ृ	तृ	来
2402		ਰੂੰ	ल
2375	े	ते	ए
2376	ै	तै	ऐ
2379	ो	तो	ओ
2380	ौ	तौ	औ
2306	ं	तं	अं
2307	ः	तः	अः

- $\xi + 3 = \xi$
- $\overline{z} + \overline{z} = \overline{z}$
- $\bullet \ \ \vec{\xi} + \vec{\pi} = \vec{\pi}$
- · र् + ऋ = र्ऋ
- $\xi + \pi = \xi$

When two or more consonants occur successively without any intervening vowels, they are written in a conjoined form:

- Horizontal cluster (read left → right): ccc
- Vertical cluster (read top \rightarrow bottom): $\begin{tabular}{c} \begin{tabular}{c} \begin{$

The rules for making consonant clusters depend (mostly) on whether the first consonant has a vertical line from top to bottom or a short central stem from which character is suspended:

- 1. In a horizontal cluster, the final vertical lines of all but the last consonant are dropped and then the remaining parts are joined together: $\overline{q} + \overline{u} = \overline{\alpha}$, $\overline{q} + \overline{q} + \overline{u} = \overline{\alpha}$, $\overline{q} + \overline{q} + \overline{q} = \overline{\alpha}$, $\overline{q} + \overline{q} = \overline{q}$, $\overline{q} = \overline{q}$,
- 2. Characters suspended from a central stem have several forms: $\xi + z = \xi$, $\xi + z = \xi$, $\xi + z = \xi$, $\xi + z = \xi$
- 3. Other combinations are handled in various ways: $\xi + u = \epsilon u$, $\xi + u = \epsilon u$
- 4. Special forms: श् and र्
 - (a) For হা, alternate combining form may be used: ধ্র, প্ল, প্ল etc. or হা may be retained: হক, হন, হम etc. But with र it is always প্ল, never as হ.
 - (b) $\overline{\chi}$ has several combining forms.
 - i. When र् is the second consonant:
 - A. First consonant has a vertical line: $\Psi + \overline{\tau} = \overline{y}$, $\overline{\Phi} + \overline{\tau} = \overline{y}$, $\overline{\Phi} + \overline{\tau} = \overline{y}$, but there are special forms: $\overline{\eta} + \overline{\tau} = \overline{y}$, $\overline{\Phi} + \overline{\tau} = \overline{y}$.
 - B. First consonant has a central stem: $\xi + \xi = \xi$, $\xi + \xi = \xi$ etc. Note the exception: $\xi + \xi = \xi$.
 - ii. When ξ is the first consonant: This gives rise to रेफ: . Examples: $\xi + \bar{a} = \bar{b}$, $\xi + \bar{b} = \bar{b}$.

There are defined consonant clusters (different from the special consonant clusters क् + ष = क्ष, ज् + ञ = ज्ञ that are part of the alphabet) like: क्ष, क्ख, क्य, क्या, ..., क्ष्म, ङ्क, द्धा, ..., द्भ, द्धा, द्धा,

Generally speaking, a document (like this one) with देवनागरी letters that has been typeset on a computer (or in a traditional printing press), the letters (especially the combined ones) are dictated by the *font* used. Thus, all of the above letters that you see are defined by the artist(s) who created the font. The देवनागरी letters in this document use a font

named Shobhika(शोभिका) which is developed by the Indian Institute of Technology Bombay, Mumbai, India.

There aren't very many punctuation marks in Samskritam. The few that are used consistently are:

- 1. The विरामः ् that denotes a bare consonant (without the terminal vowel अ).
- 2. The दण्डः I that marks the end of a sentence or the end of half a stanza: रामः गृहं गच्छति।
- 3. The दण्डो II that marks the end of a stanza.

According to Prof. Deshpande, in modern editions of Sanskrit texts, other English punctuation marks like ',', '!', and '?' are found.

2.2 On Transliteration

Perhaps of all the creations of man language is the most astonishing.

-Giles Lytton Strachey [1]

A Verb Conjugation Names

Naming verb conjugations is typically challenging. We found a verb conjugation engine that is indeed very useful in this regard. Table 6 shows the देवनागरी names of various verb forms (including conjugations) and their corresponding English names.

The classical language misses some conjugations present in the vedic language.

References

[1] Giles Lytton Strachey and George Rylands. Words and Poetry. New York: Payson and Clarke. Introduction, Page xii.

⁸foc

⁹Benediction: Indicating prayer or invoking divine protection

¹⁰परस्मैपदी धातुः

¹¹आत्मनेपदी धातुः

Table 6: Names of Verb Conjugations

तिङन्ताः Conjugations अप्रत्यचन्तधातुः Primary Conjugation लट्ट (लकारः) Present (Tense) लङ्ग (लकारः) Optative (Mood) लिएट (लकारः) Future (Mood) लिएट (लकारः) Future (Tense) लङ्ग (लकारः) Future (Tense) लङ्ग (लकारः) Future (Tense) लङ्ग (लकारः) Future (Tense) लङ्ग (लकारः) Periphrastic (Future Tense) लङ्ग (लकारः) Past Passive (Participle) लङ्ग (प्रत्ययः) Past Passive (Participle) लङ्ग (प्रत्ययः) Pruture Passive (Participle) लङ्ग (प्रत्ययः) Future Passive (Participle) लङ्ग (लङ्ग (प्रत्ययः) Future Passive (Participle) लङ्ग (लङ्ग (प्रत्ययः) Future Passive (Participle) लङ्ग (लङ्ग (अव्ययः) Future Passive (Participle) लङ्ग (अव्य	देवनागरी नाम	English Name
अप्रत्ययान्तधातुः Primary Conjugation लट् (लकारः) लट्ट (लकारः) विधिलेङ् (लकारः) विधिलेङ् (लकारः) लेङ् (लकारः) हिंद (लकारः) लेङ् (लकारः) लेङ (लकारः)		
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तव्य (प्रत्ययः) Future Passive (Participle) यत् (प्रत्ययः) Future Passive (Participle) अनीयर् (प्रत्ययः) Future Passive (Participle) यत् (प्रत्ययः) Future Passive (Participle) लेडादेश (लिट् + आदेश) पर (प्रत्ययः) Perfect Active (Participle) लेडादेश (लिट् + आदेश) आत्म¹¹ (प्रत्ययः) Future Passive (Participle) अव्ययः Indeclinable तुमुन् (अव्ययः) Infinitive कत्वा (अव्ययः) Absolutive (gerund) कत्वा (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Intensive Conjugation (repeat some of the above) यङ् रूपाणि Intensive Conjugation (repeat some of the above)		Present Passive (Participle)
तव्य (प्रत्ययः) Future Passive (Participle) यत् (प्रत्ययः) Future Passive (Participle) अनीयर् (प्रत्ययः) Future Passive (Participle) यत् (प्रत्ययः) Future Passive (Participle) लेडादेश (लिट् + आदेश) पर (प्रत्ययः) Perfect Active (Participle) लेडादेश (लिट् + आदेश) आत्म¹¹ (प्रत्ययः) Future Passive (Participle) अव्ययः Indeclinable तुमुन् (अव्ययः) Infinitive कत्वा (अव्ययः) Absolutive (gerund) कत्वा (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Intensive Conjugation (repeat some of the above) यङ् रूपाणि Intensive Conjugation (repeat some of the above)	लुडादेश (लुट् + आदेश) पर ¹⁰ (प्रत्ययः)	Future Active (Participle)
अनीयर् (प्रत्ययः) Future Passive (Participle) यत् (प्रत्ययः) Future Passive (Participle) लिडादेश (लिट् + आदेश) पर (प्रत्ययः) Perfect Active (Participle) लिडादेश (लिट् + आदेश) आत्म¹¹ (प्रत्ययः) Future Passive (Participle) अव्ययः Indeclinable तुमुन् (अव्ययः) Infinitive क्वा (अव्ययः) Absolutive (gerund) क्वा (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) णिच् रूपाणि Causative Conjugation (repeat some of the above) यङ् रूपाणि Intensive Conjugation (repeat some of the above)		Future Passive (Participle)
यत् (प्रत्ययः) Future Passive (Participle) लिडादेश (लिट् + आदेश) पर (प्रत्ययः) Perfect Active (Participle) लिडादेश (लिट् + आदेश) आत्म¹1 (प्रत्ययः) Future Passive (Participle) अव्ययः Indeclinable तुमुन् (अव्ययः) Infinitive कत्वा (अव्ययः) Absolutive (gerund) कत्वा (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) णिच् रूपाणि Causative Conjugation (repeat some of the above) यङ् रूपाणि Intensive Conjugation (repeat some of the above)		Future Passive (Participle)
यत् (प्रत्ययः) Future Passive (Participle) लिडादेश (लिट् + आदेश) पर (प्रत्ययः) Perfect Active (Participle) लिडादेश (लिट् + आदेश) आत्म¹1 (प्रत्ययः) Future Passive (Participle) अव्ययः Indeclinable तुमुन् (अव्ययः) Infinitive कत्वा (अव्ययः) Absolutive (gerund) कत्वा (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) णिच् रूपाणि Causative Conjugation (repeat some of the above) यङ् रूपाणि Intensive Conjugation (repeat some of the above)	अनीयर् (प्रत्ययः)	Future Passive (Participle)
लिडादेश (लिट् + आदेश) आत्म ¹¹ (प्रत्ययः) Future Passive (Participle) अव्ययः Indeclinable तुमुन् (अव्ययः) Infinitive कत्वा (अव्ययः) Absolutive (gerund) कत्वा (अव्ययः) Absolutive (gerund) लयप् (अव्ययः) Absolutive (gerund) लयप् (अव्ययः) Absolutive (gerund) लयप् (अव्ययः) Absolutive (gerund) णिच् रूपाणि Causative Conjugation (repeat some of the above) यङ् रूपाणि Intensive Conjugation (repeat some of the above)		Future Passive (Participle)
लिडादेश (लिट् + आदेश) आत्म ¹¹ (प्रत्ययः) Future Passive (Participle) अव्ययः Indeclinable तुमुन् (अव्ययः) Infinitive कत्वा (अव्ययः) Absolutive (gerund) कत्वा (अव्ययः) Absolutive (gerund) लयप् (अव्ययः) Absolutive (gerund) लयप् (अव्ययः) Absolutive (gerund) लयप् (अव्ययः) Absolutive (gerund) णिच् रूपाणि Causative Conjugation (repeat some of the above) यङ् रूपाणि Intensive Conjugation (repeat some of the above)	लिडादेश (लिट् + आदेश) पर (प्रत्ययः)	Perfect Active (Participle)
तुमुन् (अव्ययः) Infinitive कत्वा (अव्ययः) Absolutive (gerund) कत्वा (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) णिच् रूपाणि Causative Conjugation (repeat some of the above) यङ् रूपाणि Intensive Conjugation (repeat some of the above)	लिडादेश (लिट् + आदेश) आत्म ¹¹ (प्रत्ययः)	Future Passive (Participle)
क्तवा (अव्ययः) Absolutive (gerund) क्तवा (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) णिच् रूपाणि Causative Conjugation (repeat some of the above) यङ् रूपाणि Intensive Conjugation (repeat some of the above)	अव्ययः	Indeclinable
क्तवा (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) णिच् रूपाणि Causative Conjugation (repeat some of the above) यङ् रूपाणि Intensive Conjugation (repeat some of the above)	तुमुन् (अव्ययः)	Infinitive
ल्यप् (अव्ययः) Absolutive (gerund) ल्यप् (अव्ययः) Absolutive (gerund) णिच् रूपाणि Causative Conjugation (repeat some of the above) यङ् रूपाणि Intensive Conjugation (repeat some of the above)	क्त्वा (अव्ययः)	Absolutive (gerund)
ल्यप् (अव्ययः) Absolutive (gerund) णिच् रूपाणि Causative Conjugation (repeat some of the above) यङ् रूपाणि Intensive Conjugation (repeat some of the above)	,	
णिच् रूपाणि Causative Conjugation (repeat some of the above) यङ् रूपाणि Intensive Conjugation (repeat some of the above)	ल्यप् (अव्ययः)	Absolutive (gerund)
यङ् रूपाणि Intensive Conjugation (repeat some of the above)		Absolutive (gerund)
यङ् रूपाणि Intensive Conjugation (repeat some of the above)	णिच् रूपाणि	Causative Conjugation (repeat some of the above)
` ~	यङ् रूपाणि	
71.1 Z-AIL-1 Desiderative Confugation (repeat solile of the above)	सन् रूपाणि	Desiderative Conjugation (repeat some of the above)