

Problem 4. Komnzo (25 marks)

Komnzo is a Yam language spoken by about 200 Farem people in Papua New Guinea. Although there is no writing tradition in the language, in recent years linguists have worked with native speakers to devise an orthography (writing system). Below are some Komnzo words, written in both the new orthography and a simplified phonetic transcription. The phonetic transcription is given in [square brackets], and is explained below.



æ is between the *e* in *bed* and the *a* in *cat*; **ə** is the *a* in *about*; **ɔ** is the *o* in *not*; **ø, y** are similar to **ə, i** respectively, but with the lips rounded. **dz** is similar to the *ds* in *cards*; **dʒ** is the *j* in *judge*; **ð** is the *th* in *that*; **ɸ** is similar to the *f* in *fish*, but pronounced using both lips; **j** is the *y* in *yes*; **r** is Scottish *r*; **ts** is similar to the *ts* in *cats*; **tʃ** is the *ch* in *church*; **θ** is the *th* in *thing*; **ɿ** is the consonant in the middle of *uh-oh*. The symbols **m̥, n̥, ŋ̥** indicate that air is released through the nose before articulating the following sound. A full stop . marks a syllable boundary.

äthgamnzo	[?æ.ðə.ŋ̥gam.ⁿdzɔ]	müznzo	[my.tsə.ⁿdzɔ]
brbr	[⁊bə.ɾə.⁊m̥bəɾ]	nafangthrwä	[na.ɸa.nə⁊k.ðəɾ.wæ]
brüziä	[⁊bry.tʃi.?æ]	ngthf	[nə⁊k.ðəɸ]
bthfrnm	[⁊bəθ.ɸəɾ.nəm]	nzigfu	[⁊dʒi⁊k.ɸu]
dokrennm	[⁊də.kre.nəm]	nzrugrm	[⁊dzru⁊k.rəm]
emoth	[?e.məθ]	nzungth	[⁊dzun.⁊gəθ]
emothdbo	[?e.mə.ðə.⁊də.⁊m̥bɔ]	snzääne	[sə.⁊dʒæ.ɿa.ne]
ezi	[?e.tʃi]	srakwä	[srak.wæ]
fortur	[ɸəɾ.tur]	thfamnzrm	[ðə.ɸa.mə⁊ts.rəm]
frf	[ɸə.ɾəɸ]	trnää	[təɾ.næ.ɿæ]
fzenz	[ɸə.tʃe⁊ts]	trutru	[tru.tru]
känbrim	[kæn.⁊brim]	worsin	[wəɾ.sin]
kondomarin	[kən.⁊də.ma.rin]	ymdrrssü	[jə.mə⁊t.rəɾ.sy]
ktikti	[kə.tik.ti]	zimithgr	[tʃi.mi.ðə.⁊gəɾ]
kumda	[kum.⁊da]	zrämgth	[tsrəm.⁊gəθ]
madma	[ma⁊t.ma]	zsfmthzgwrmt	[tsə.səɸ.məθ.tsə⁊k.wəɾ.məθ]

Q 4.1 Write the following in the new orthography. Note that syllable boundaries have not been marked.

(a) [kə⁊tsy]

(b) [⁊gə⁊pkaræ]

(c) [tʃy⁊tsme]

Q 4.2 Write the following in the phonemic transcription. You must mark syllable boundaries.

- | | |
|------------------|---------------|
| (a) bthrathorthm | (e) nzenmwä |
| (b) dmnzürnzo | (f) rngthksi |
| (c) komnzo | (g) srminz |
| (d) krbuädbe | (h) zzänfrefa |

Q 4.3 Explain your solution.

Problem 4. Komnzo Answers and Explanation (1/2)

Total: 38 points

Problem 4. Komnzo

4.1	a <i>kdsü</i>
	b <i>gbkarä</i>
	c <i>zünzme</i>
4.2	a [^m bə.ðra.ðər.ðəm]
	b [ⁿ dəm. ⁿ dʒy.rə. ⁿ dzɔ]
	c [kəm. ⁿ dzɔ]
	d [kə.rə. ^m bu.?æ. ⁿ də. ^m be]
	e [ⁿ dʒe.nəm.wæ]
	f [rə.nə ⁿ k.ðək.si]
	g [sər.mi ⁿ ts]
	h [tsə.tʃæn.ɸre.ɸa]

Q 4.1 Max 3. 1pt if correct.

Q 4.2 Max 16. 2pts if correct; 1pt if one mistake.

Work right-to-left, applying rules as in the explanation. Penalise only incorrectly applied rules, not incorrect final forms.

Q 4.3 Max 19. 10pts for description of syllabification ; 3pts for symbol correspondence; 6pts for allophonic variation.

Problem 4. Komnzo Explanation (2/2)

Explanation

This problem is mostly about phonotactics and epenthesis in Komnzo, with some additional allophony.

Komnzo has pretty restrictive syllable structure – the most complicated a syllable can be is CrVC - compare that to the number of consonants in the English syllables *strengths* and *twelfths!* However, many words in Komnzo do not form valid syllables by default, so certain sounds are added when the word is spoken. The orthography does not contain these additional sounds, while the phonetic transcription does.

In particular, a legal syllable is of the form Cə(C) or C(r)V(C)¹ for other vowels. In a consonant cluster, if the second is a prenasalised stop *b, d, nz, g*, the first must be a nasal stop *m, n*. Note *th, nz* are digraphs, representing one consonant.

To form the transcription from the orthography (rules simplified to only account for the problem):

- 1) Work right-to-left forming the maximal possible syllables, by inserting [ə] or [?] if necessary.
- 2) $b > [^m b]$; $d > [^n d]$; $f > [\phi]$; $g > [^n g]$; $nz > [^n dz]$; $r > [r]$; $th > [\delta]$; $y > [j]$; $z > [ts]$.
 $\ddot{a} > [\ddot{æ}]$; $\ddot{u} > [y]$; $o > [\emptyset]$ in closed syllables and $o > [\emptyset]$ in open syllables.
 Everything else is unchanged.
- 3) Devoice stops/fricatives syllable finally: $[^m b \ ^n d \ ^n dz \ ^n g \ \delta] > [^m p \ ^n t \ ^n ts \ ^n k \ \theta]$.
- 4) Palatalise affricates: $[ts \ ^n dz] > [tʃ \ ^n dʒ]$ before front vowels [i y e æ].²

Source:

Döhler, C. (2019). *A grammar of Komnzo* (Vol. 22). Language Science Press.

¹ CwV(C) is also allowed, but does not feature in this problem.

² Also $\ddot{o} = /oe/$ not featured here.