

## Question A: Welcome to Kannada

A1.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	L	J	N	M	A	G	F	K	O	B	I	H	C	E	D

1.	Bangalore	L.	ಬೆಂಗಳೂರು	be <sup>n</sup> ga ūru
2.	Bannur	J.	ಬನ್ನೂರ್	ban <sub>n</sub> ur
3.	Basāpur	N.	ಬಸಾಪುರ್	basāpur
4.	Lakkundi	M.	ಲಕ್ಕುಂಡಿ	lak <sub>k</sub> u <sup>n</sup> di
5.	Madikēri	A.	ಮಡಿಕೇರಿ	madikēri
6.	Malavalli	G.	ಮಳವಳ್ಳಿ	ma ava li
7.	Mandya	F.	ಮಂಡ್ಯ	ma <sup>n</sup> da
8.	Mysore	K.	ಮೈಸೂರು	ma <sub>i</sub> so <u>r</u> u
9.	Neshārgi	O.	ನೆಶಾರಗಿ	nešāragi
10.	Puttur	B.	ಪುತ್ತೂರು	putūru
11.	Rāmanagara	I.	ರಾಮನಗರ	rāmanagara
12.	Sāligrāma	H.	ಸಾಲಿಗ್ರಾಮ	sāligrāma
13.	Sathanur	C.	ಸಥನುರ್	sat <sup>h</sup> anur
14.	Shrīmangala	E.	ಶ್ರೀಮಂಗಳ	šrēma <sup>n</sup> ga a
15.	Turuvēkere	D.	ತುರುವೇಕೆರೆ	turuvēkere

A2. (a) Paris [pāris] ..... (b) London [landan] .....

(c) Budapest [budāpesa] ..... (d) Prague [prāg] .....

A3. (a) ಕನಡೆ or initially ಕೆ .....

(b) ಡುದಾಲಿನ್ alt: Du = ಡ b = ಬ or ಬು .....

(c) ಲಿವಪುಲ್ also accept initially ಳಿ for li, ವೆ for ve, ರ್ r inserted, ಪೂ pu with long u and final ಳ with a 6 : The actual official transliteration is ಲಿವರ್ ಪೂಲ್ [liverpūl]

### Explanation

The writing system is an abugida: each consonant sound is represented by a given shape, onto which are grafted diacritics to represent vowel sounds (or lack of).

Only a selection of symbols are used in this problem, as tabulated below: symbols in grey shaded cells were seen only in the European capitals task. Symbols in blue shaded cells had to be derived.



## (c) kimsa pataka llätunka tunkxa pataka llätunka tunk phisqani kuti payani kikipa

## Explanation

Order of HTU same as English: H *pataka* T *tunc* U. U if in a number > 10 adds *-ni*. Teens (including 10 on its own) are formed with *tunca*

Numerals are as follows:

1 – *maya*, 2 – *pä/paya* (with *-ni*), 3 – *kimsa*, 4 – *pusi*, 5 – *phisqa*, 6 – *suxta*, 7 – *paqallku*, 8 – *kimsaqallku*, 9 – *llätunka*.

10 – *tunka*, 20 *pä tunk*, 30 – *kimsa tunk* etc.

100 – *pataka*

*Qallku* is presumably another name for 5, since 7 = 2.5, 8 = 3.5. *-qallku* drops the final *-u* when forming a T. 9 = *llä*-10 ('nearly 10?').

Possible solution method (start)

(b) tells us that *maya* is 1 ( $1 \times n = n$ )

Assuming numerals end in U, (h), which is a square ( $n \times n$ ), is 81 or 121. Assuming it's 81, *llätunca* is 9.

(a) Is also a square, ending in 9, so *paqallku* must be 7

Etc.

Question C: **Maonan-imals**

C1.	1	2	3	4	5	6	7	8	9	10
	<b>F</b>	<b>H</b>	<b>Q</b>	<b>R</b>	<b>J</b>	<b>D</b>	<b>A</b>	<b>E</b>	<b>M</b>	<b>O</b>
	11	12	13	14	15	16	17	18	19	
	<b>I</b>	<b>K</b>	<b>S</b>	<b>P</b>	<b>G</b>	<b>B</b>	<b>C</b>	<b>N</b>	<b>L</b>	

C2. (a) *animals*..... (b) *bird's nest* ..... (c) *spray a lot*..... (d) *good pig* .....

C3. (a) *dat<sup>8</sup> da:i<sup>2</sup>* ..... (b) *kjəŋ<sup>5</sup> dɔ<sup>2</sup> ?əp<sup>7</sup>* . (c) *dɔ<sup>2</sup> ka:i<sup>5</sup> dak<sup>8</sup>*..... (d) *gun<sup>6</sup> mu<sup>5</sup>*.....

C4. *grasshopper (that) drinks water*.....

Solution:

1	da:i <sup>2</sup> na <sup>4</sup>	<i>good-eat</i>	F	delicious
2	dat <sup>8</sup> na <sup>4</sup>	<i>thing-eat</i>	H	food
3	dat <sup>8</sup> nam <sup>3</sup>	<i>thing-water</i>	Q	water
4	dat <sup>8</sup> put <sup>7</sup> nam <sup>3</sup>	<i>thing-spray-water</i>	R	water sprayer
5	dɔ <sup>2</sup> gjuŋ <sup>2</sup>	<i>animal-grasshopper</i>	J	grasshopper
6	dɔ <sup>2</sup> ka:i <sup>5</sup>	<i>animal-chicken</i>	D	chicken

7	dɔ <sup>2</sup> vɛ <sup>4</sup> kɔŋ <sup>1</sup>	animal-make-work	A	beast of burden
8	guŋ <sup>6</sup> dza:n <sup>5</sup>	nest-silkworm	E	cocoon
9	hi:u <sup>3</sup> gwi <sup>2</sup>	tooth-buffalo	M	molar
10	kjɔŋ <sup>5</sup> dza:n <sup>5</sup>	pl-silkworm	O	silkworms
11	kjɔŋ <sup>5</sup> hi:u <sup>3</sup> da:i <sup>2</sup>	pl-tooth-good	I	good teeth
12	kjɔŋ <sup>5</sup> ka:i <sup>5</sup> ni <sup>4</sup>	pl-chicken-mother	K	hens
13	kɔŋ <sup>1</sup> kɔk <sup>8</sup>	work-much	S	work hard
14	mu <sup>5</sup> ni <sup>4</sup>	pig-mother	P	sow
15	na <sup>4</sup> nɔk <sup>8</sup>	eat-much	G	eat a lot
16	ni <sup>4</sup> gwi <sup>2</sup> dak <sup>8</sup>	big-buffalo-male	B	big bull
17	ni <sup>4</sup> mu <sup>5</sup>	big-pig	C	big pig
18	nɔk <sup>8</sup> ka:i <sup>5</sup>	wild:bird-chicken	N	pheasant
19	nɔk <sup>8</sup> ?ɛp <sup>7</sup>	wild:bird-duck	L	mallard

Maonan uses classifiers heavily.

Classifier	Notes
ni <sup>4</sup>	'large animal'. Comes from ni <sup>4</sup> 'mother'
dat <sup>8</sup>	'thing, object'
dɔ <sup>2</sup>	'animal'. Also used for some birds
nɔk <sup>8</sup>	'(wild) bird'. Used for most birds

The morpheme *ni<sup>4</sup>* means 'mother' as a standalone and 'female' when used as a suffix. When used as a prefix, *ni<sup>4</sup>* loses its gender specificity to just mean 'large'. This also occurs with *dak<sup>8</sup>*, although it is not shown in this problem.

The morpheme meaning 'a lot' is *Cɔk<sup>8</sup>* where *C* duplicates the initial consonant of the word to which it is added.

### Question D: Look who's talking

D1. (a) Pi ?ac ñeñok ?a:cim.

(b) No pi cickpan g cecoj.

(c) No hihim g ?alal.

(d) Cickpan ?ac ?a:cim.

(e) Ñeok ?o hegai ?ali.

D2. (a) The children are working. ....

(b) Are the men walking? .....

(c) That woman is not speaking.....

D3. The mistake is in sentence ... (b) .... where the word ...him... should be ...hihim ....

Summary of grammar rules:

Word order is as follows (brackets indicate optionality):

(Question) (Negative) (Declarative) Verb (Declarative) Article Subject

Question marker is *nañ* for 1<sup>st</sup> person singular, *no* for 3<sup>rd</sup> person plural. (Further generalisation may be possible, eg number or person, but we cannot tell from the data)

Negative marker is *pi*

The declarative marker appears only in statements, not questions, agreeing with the subject: *?añ* ('I'), *?ac* ('we') otherwise *?o* if the subject is a noun. It appears before the verb in a negative statement, after the verb in a positive statement.

Verbs have a reduplicative form\* when the subject is plural: *ñeok/ñeñok* ('speak'), *him/hihim* ('walk'), *cikpan/cickpan* ('work')

The Article is *g* ('the') or *hegai* ('that'), not needed with pronouns.

Subject nouns, which, like verbs, have a reduplicative form in plural\*, are *ceoj / cecoj* ('man'/'men'), *?ali / ?alal* ('child'/'children'), *?uwĩ* ('woman'), pronouns *?a:ñi* ('I'), *?a:cim* ('we')

\* The data do not permit any generalisation about how this partial reduplication works.

Regarding D3: The verb and subject must agree. Note that the alternative possible correction, making the subject singular, cannot be accepted, since we have no evidence of what the negative marker should be with a 3<sup>rd</sup> person singular subject.

**Question E: You, me and isiXhosa**

E1. (a) **Do they love you (pl)?**.....

(b) **You (pl) can teach them.**.....

(c) **They do not teach German.**.....

(d) **Do you (sg) not still see me? [Don't you (sg) still see me?]** .....

(e) **We don't learn French yet.**.....

(f) **They can show us.** .....

E2. (a) **Uyabafundisa** .....

(b) **Niyathetha** .....

(c) **Ndinganibona?**.....

(d) **Ndisafunda** .....

(e) **Akungaboni abantu**.....

(f) **Abafundi isiNgesi** .....

**E3.** Explain the rules of isiXhosa grammar as seen here. Continue on the back page if necessary.

Word order is Verb – optional Object. Subject is incorporated as a verb prefix. Language names are preceded by *isi-*. The internal structure of the verb is as follows:

POLARITY	SUBJECT	ASPECT	OBJECT	ROOT	POLARITY
+ve = $\emptyset$	1s = <i>ndi</i>	'can' = <i>nga</i>	Same as subject	'love' = <i>thand</i>	+ve = <i>a</i>
-ve = <i>a</i>	2s = <i>(k)u</i> *	'still' = <i>sa</i>	$\emptyset$ if obj is noun	'see' = <i>bon</i>	-ve = <i>i</i>
	1p = <i>si</i>	'yet' = <i>ka</i>		'learn' = <i>fund</i>	
	2p = <i>ni</i>	else = <i>ya</i> **		'teach' = <i>fundis</i>	
	3p = <i>ba</i>			'speak' = <i>theth</i>	

\* *ku* is used after *a-*; *u* elsewhere. \*\**ya* appears if no other aspect morpheme is used, and the object is not expressed by a second word.

Questions are not marked morphologically.

Vocabulary as follows:

*thand* 'love', *bon* 'see', *theth* 'speak', *fund* 'learn'

*fundis* 'teach' (= cause to learn) from which infer *bonis* 'show' in E1f

*isiJamani* 'German' and *isiFrentshi* 'French' have to be guessed.