



National Final 2023

Wednesday, 1st March 2023, 10.00-12.30 Dublin City University

Answer as many of the questions as you can. Write your answers in the answer-book provided.



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Question A: Tidore word formation

Pyotr Arkdyev

Study the following words, and the verbs derived from them. All letters are pronounced as in English.

kene	small	sokene	to reduce
gure	a place, location	sogure	to put
chum	to indicate	sojum	to explain
dadi	to become	sodadi	to do
peka	to fall	sobeka	to drop
ado	to arrive	sogado	to deliver
koko	to stand (up)	sogoko	to set upright
tolu	a hat	sotolu	to cover

A1. The following words are derived by the same process. Fill in the blanks in the table. If there is more than one possible Tidore word, give them all (each with its translation). Where you are asked to provide an English translation, try to choose a word or phrase that makes the meaning clear.

alo	(a)	soalo	to cool
uchi	to go down	(b)	to lower
koliho	to come back	(c)	(d)
akal	cunning	(e)	to outwit
torine	to sit down	(f)	to seat
kai	wedding	(g)	to marry
(h)	(i)	sobaka	to lift up
(j)	a step	sojoko	to advance

A2. Explain the word formation rules as seen here.

Tidore is a North Halmahera language of Indonesia, spoken by about 30,000 people. The language is centred on the island of the same name, but it is also spoken in some neighbouring areas.

Source: 52nd (Russian) Traditional Linguistics Olympiad 2021/22, qualifier stage. Translated by Harold Somers.

Question B: Sogdian script

Michael Salter

The ancient kingdom of Sogdiana, centred on the fabled city Samarkand, was a major trading centre on the Silk Road that linked China with the Middle East and Europe beyond. As a result of this, the Sogdian language became an important *lingua franca* (common language) in the region, and a good deal of writing in Sogdian survives. One of the main scripts used to write Sogdian was the Manichean script, which was derived from ancient Aramaic.

On the next page are some words in the Manichean Sogdian script, with their English transliterations. Note, the Manichean Sogdian script was not always 'precise', in that (just like English) sometimes the same symbol was used to indicate two different sounds, and sometimes the *same* sound could be represented by two different symbols.

Pronunciation guide:

A macron mark (⁻) over a vowel indicates a long vowel

a is the unstressed "schwa" vowel as in English '<u>a</u>lone')

č is 'ch' as in 'church' (IPA [ʧ])

š is 'sh' as in 'shin' (IPA [ʃ])

 \check{z} is the voiced equivalent of \check{s} as in 'Asia' (IPA [3]).

 θ is the 'th' sound in 'thin' (IPA [θ])

 δ is the voiced equivalent of θ , the 'th' sound in 'this' (IPA [ð])

 γ is a voiced velar fricative found in Dutch 'g' or Irish 'dh' or 'gh' in some words (IPA [y])

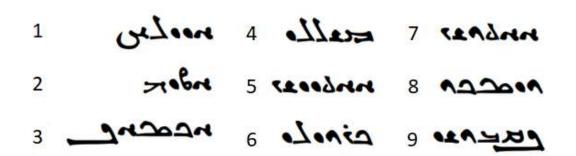
Transliteration	Sogdian
yāxēt	hogas
pətəri	•i62
Sēwət	knel
šukča	weeren
nōšč	GrosAL
martīt	hohio
wītərənd	nodias
əstəkānjəl	nachensel
šəwēm-kān	(madenu)
suybīkt	proform
anyōn	Injen

B1. Give the Manichean script version of these Sogdian words. In one case, two versions are possible.

(a) wēδpātī (b) nəγōšākt (c) əšya

B2. Below are three more Sogdian words in English transliteration, followed by nine words in the Manichean Sogdian script. *Three* of these nine words match the three English transliterations. Which ones?

(a) āžōnd (b) kambōnī (c) kanθi



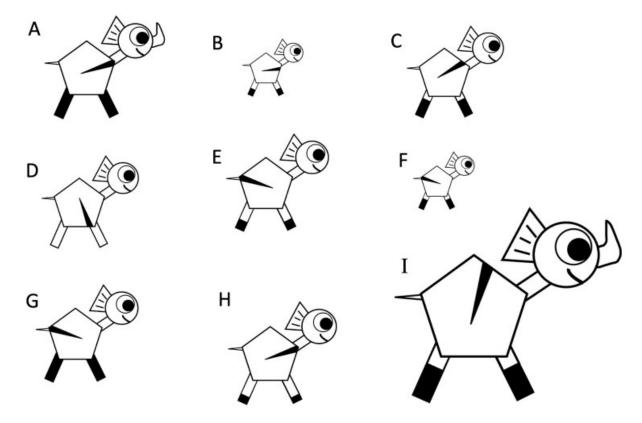
B3. Using the information from B2, give the Manichean script version of the following Sogdian words:

(a) tambār (b) xēpə θ .

Question C: Vloxes

Tom McCoy

Exciting news: you've got clearance to visit Mars! Your job there is to take care of some Martian animals called vloxes. Here are the nine vloxes that you will be in charge of:



Your commander asks you to identify which vloxes fit the following descriptions:

- (1) The two mellivu vloxes (2) The two azeltorf vloxes
- (4) The two mellovu vloxes (5) The qliqli vlox
- (7) The two kibb vloxes
- (8) The imxo vlox
- (3) The three ravv vloxes
- (6) The kibbish-zuff vlox
- (9) The zuffish-kibb vlox

Unfortunately, many of these words are unfamiliar to you, and you don't have a dictionary! Luckily, you do have an encyclopedia article (below) that uses these words. Even though the article doesn't define the words directly, you can figure out a lot about each word based on how it is used in context.

C1. Based on what you can infer from the encyclopedia article, fill in the letter(s) of the vlox(es) that fit(s) each description from your commander. You will need to use some letters more than once.

C2. How would you describe the youngest vlox in the picture? Use two of the following words to complete the phrase (a)-ish (b).

zuff kibb tezz womm ravv

From Marsipedia, the	Martian encyclopedia
The ylox (Vlovis ylovia)	is the most imxo species of zoobleporf. Due to its playful disposition, it is a
popular pet throughou	
Contents	
1 Appearance 2 In popular culture	
2 in popular culture	
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han valley vloxes. ^[1] Repetered by the second less and less of the second less of the s	eeds: the polar vlox and the valley vlox. Polar vloxes are usually more mellive gardless of breed, all vloxes are born completely qliqli. As they mature, they liqli. It is believed that all prehistoric vloxes were zuffish-kibb or tezzish-kibb play great variety in zlorvitude.
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Question D: Shapes and colours

Simi Hellstein

Ideophones are a type of word found in some languages that, as well as having a literal meaning, evoke a sensory image. They are like onomatopoeic words, but more systematic. We don't have them in English, although some words do have something of an ideophonic nature. To illustrate, consider *splish*, *splash* and *splosh*, where the consonants indicate something dropping into water, and the vowel indicates the size of the splash. Another example is the way some words beginning with *gl*- indicate something to do with 'light' (*glimmer*, *glow*, *glisten*, *glint*) – but we say it is not systematic because the *gl*- in words like *glad*, *glum*, etc. does not carry this meaning.

Filomeno Mata Totonac is a variety of the Totonac language, another Mesoamerican language, spoken in Veracruz state, Mexico. The table below lists some words of this language along with an indication of their usage.

Pronunciation guide: $\mathbf{\check{s}}$ is the *sh* in *ship* (IPA [ʃ]); \mathbf{q} is similar to *k* in *milk* but pronounced further back in the mouth; $\mathbf{\hat{r}}$ is the glottal stop, the consonant in the middle of *uh-oh*; $\mathbf{\check{4}}$ is the Welsh *ll* in *Llanelli* – a sound similar to **l** but with more "hissing".

The word	could describe things that
tsitseqe	are black
smukuku	are yellow
škuuta	are sour or bitter
tšiiki	smell like burnt hair or feathers
peqšpeqš	sound like shelling beans
spuponqo	are blue or purple
šalala	are full of holes
muqu	smell like mildew* or petrol
škayiw?a	are green
mukł	are overly flowery
pikspiks	sound like dripping water
skunku	smell/taste like fish or eggs
łqonqo	smell/taste like beef or mutton
tiłtił	sound like grains being poured

The word	could describe things that
tsiiki	smell like scented soap
squuta	are sour or acidic
łqonqłłqonqł	sound like snoring
hakš	smell/taste like onion or mildew
muks	smell flowery
qululu	are round or spherical
lasasa	are thin
łmukuku	are pale yellow
łpuponqo	are violet
mululu	are indented
spupuku	are blue-grey
saqaqa	are white
haks	smell/taste like orange peel
loqsloqs	sound like someone being slapped

* mildew is a kind of foul-smelling mould

D1. Match up the following ideophones (1)-(13) with their meanings (a)-(m):

(1)	haqł	(a)	are red
(2)	kapakapa	(b)	are hot (to the touch)
(3)	łkayiw?a	(c)	sound like a cow or horse walking
(4)	łkunku	(d)	smell like urine
(5)	łtululu	(e)	are warm
(6)	qapaqapa	(f)	are dark grey
(7)	tištiš	(g)	are light green
(8)	tłitłeqe	(h)	smell like burnt beans
(9)	tsiits	(i)	sound like someone splashing in a puddle
(10)	tsutsoqo	(j)	are thick
(11)	tšeeq	(k)	smell/taste like egg
(12)	tšiitš	(1)	sound like a deer or goat walking
(13)	tšikłtšikł	(m)	sound like water flowing

D2. All except one of the words given in the table (that is, not including the words (1)-(13)) are ideophones. Which is not?

D3. What sorts of things could the following words describe?

(a) **skuuta** (b) **šquuta** (c) **tšutšoqo**

D4. A speaker of Filomeno Mata Totonac describes a ripe banana using the following ideophones: (a) **pamama**, (b) **šmoqoqo**, and (c) **seqsi**. Which property of the banana does each word describe?

Question E: K'iche'

Michael Salter

The K'iche' language (also called *Qatzijob'al*) is a Mesoamerican language of the Mayan language family, spoken by approx. 1.6m people in the central highlands of Guatemala. K'iche' is the second most widely-spoken language in the country, after Spanish, and is also the most widely-spoken indigenous American language in Central America. The following are some sentences from K'iche' together with their English translations. Knowing how to pronounce K'iche' is not relevant to solving the problem, but for your information, the ' symbol represents a glottal stop ([?]) like the sound in the middle of 'uh-oh'. Other consonants are pronounced more or less as they would be in Spanish.

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xub'an le q'aq' pa le ko'ch	He made the fire in their house.
na xatkitijoj taj	They did not teach you.
maj wa pa le nutijob'al	There is no food in my school.
kinkitzukuj	They are looking for me.
k'o sib'alaj utz awuj	You have a very good book.

E1. Translate the following into English. If you think a sentence has two possible meanings, give both meanings.

(a) maj me's pa le ro'ch

(b) na kutzukuj ta le kiwuj

(c) sib'alaj nimaqan le awachi'il

(d) la sib'alaj je'l le nuche'

(e) kinb'an le nuwa

E2. Translate into K'iche':

(a) He has a good teacher.

(b) He waited for you.

(c) Is my red book in their tree?

(d) You didn't teach me in your school.

E3. Match the following K'iche' words (a-f) to their English meanings, given here (1-6) in random order:

(a) q'aq'al	(1) lesson
(b) <i>nimbe'</i>	(2) fever
(c) wa'ib'al	(3) hunter
(d) banob'al	(4) workshop
(e) <i>tijonem</i>	(5) cafeteria
(f) tzukunel	(6) highway

E4. Explain the rules of K'iche' grammar as seen here.

END OF PAPER