

# UK LINGUISTICS OLYMPIAD



## ROUND ONE, ADVANCED LEVEL, February 2012

[Questions 1-4 are omitted at Advanced level.]

### 5. Esperanto (15 marks)

Esperanto is an artificial language created by Ludwig Lazarus Zamenhof in 1887 and designed for international communication. Estimates of the number of active and fluent speakers range from 100,000 to 2,000,000 people all around the world, with a few hundred native speakers. The letters 'ĝ' and 'ĉ' are pronounced like 'g' and 'ch' in the words 'gem' and 'chase'.

Here are some Esperanto sentences translated into English.

1. La kapro manĝintas.	The goat has eaten.
2. La hundo ĉasis la katon.	The dog chased the cat.
3. La kapro manĝis.	The goat ate.
4. La kapro manĝitos.	The goat will have been eaten.
5. La kapron ĉasintis la hundo.	The dog had chased the goat.
6. La kapro manĝas.	The goat eats.
7. La kapro manĝotas.	The goat is going to be eaten.
8. La kato manĝantas.	The cat is eating.
9. La kapro manĝontis.	The goat was going to eat.
10. La kapro manĝintos.	The goat will have eaten.
11. La kato ĉasas la hundon.	The cat chases the dog.

**Question 5.** (Write your answers on the separate answer sheet.)

Translate the following sentences into English:

1. La kapro manĝontos.
2. La kapro manĝitas.
3. La kato ĉasitis.

Translate the following sentences into Esperanto:

4. The goat was eating.
5. The dog is being eaten.
6. The dog will chase the goat.

## 6. Crocodile Bardi (15 marks)

Bardi is part of the Nyulnyulan language family and is the traditional language of the Bardi people, who live in and around One Arm Point and the Lombadina/Djarrindjin Aboriginal Communities, along the coast of Australia's Kimberley Region. Although about a thousand people identify as Bardi, only a handful of people can be considered fluent speakers of the Bardi language.

Here is a diagram of a scene showing a bird, a cat, a child, a woman, a dog, a man, a horse and a kangaroo. Both you and the speaker are standing at the bottom of the diagram, facing the scene; that is, "right" is your right, and "in front of" is closer to the bottom of the page.



Here are some Bardi sentences describing the diagram:

- (1) Aamba bornkony yaawardon.
- (2) Baawa joorroongony garrabagoon.
- (3) Boorroo alaboor yaawardon.
- (4) Iila alaboor ooranygoon.
- (5) Iila baybirrony aambon.
- (6) Minyaw baybirrony baawon.
- (7) Oorany joorroongony baawon.
- (8) Yaawarda bornkony aambon.

**Question 6.** (Write your answers on the separate answer sheet.)  
The question is on the next page.

Pair the English words 1-13 with one word each from the list of 13 Bardi words, A-M.  
To get you started, 1=H and 2 = D.

1	bird	A	aarlgoodony
2	child	B	aamba
3	cat	C	alaboor
4	dog	D	baawa
5	horse	E	baybirrony
6	kangaroo	F	boorroo
7	man	G	bornkony
8	woman	H	garrabal
9	next to	I	iila
10	behind	J	joorroongony
11	in front of	K	minyaw
12	to the left of	L	oorany
13	to the right of	M	yaawarda

## 7. Waorani numbers (20 marks)

Waorani is spoken by about 600 native Americans in Ecuador. They have fewer single-word expressions for numbers than English, and are in fact said rarely to count above ten. However, in principle their number system can be combined, as in the following examples, with our mathematical symbols such as =, +, x and <sup>2</sup> (with their usual meanings; x and <sup>2</sup> mean ‘times’ and ‘squared’). Each of the underlined expressions below represents a number less than ten.

- (1) měña měña měña měña + měña go měña = ãemãempoke go aroke x 2
- (2) aroke<sup>2</sup> + měña<sup>2</sup> = ãemãempoke
- (3) ãemãempoke go aroke<sup>2</sup> = měña go měña x ãemãempoke měña go měña
- (4) měña x ãemãempoke = tipãempoke

**Question 7.** (Write your answers on the separate answer sheet.)

Give the Waorani translations of the numbers from 4 to 10 inclusive.

## 8. Arcturan intergalactic peace message (20 marks)

It is the year 2354 AD, and we are trying to make contact with two alien species, the Centauri and the Arcturans. Although we have never met either species, we have seen their communication for a very long time. Our scientists first received messages from the Centauri. These aliens from Alpha Centauri live in the solar system closest to earth. Their first message was a message of peace: “farok crrrok hihok yorok klok kantok ok-yurp”.

Now, we know that the Centauri have been in contact for some time with the Arcturans, who live in another solar system. We have never had contact with the Arcturans, but newly developed technology makes it possible for us to send them a message. We would like to send them, first, a message of peace. Because we do not understand their language, this is not an easy task. However, we do know that the Centauri have been in contact with them for a while and we have intercepted messages which they have sent. These messages include both languages, and are shown in the table below. Here we find 12 sentences in Centauri and their translations in Arcturan. Unfortunately, because we have just been eavesdropping their meaning is unknown, but we do know that the sentences pairs are translations of each other.

CEN 1 ok-voon ororok sprok.	ARC 1 at-voon bichat dat.
CEN 2 ok-drubel ok-voon anak plok sprok.	ARC 2 at-drubel at-voon pippat rrat dat.
CEN 3 erok sprok izok hihok ghrok.	ARC 3 totat dat arrat vat hilat.
CEN 4 ok-voon anak drok brok jok.	ARC 4 at-voon krat pippat sat lat.
CEN 5 wiwok farok izok stok.	ARC 5 total jjat quat cat.
CEN 6 lalok sprok izok jok stok.	ARC 6 wat dat krat quat cat.
CEN 7 latok farok ororok lalok sprok izok enemok.	ARC 7 wat jjat bichat wat dat vat eneat.
CEN 8 lalok brok anak plok nok.	ARC 8 iat lat pippat rrat nnat.
CEN 9 wiwok nok izok kantok ok-yurp.	ARC 9 totat nnat quat sloat at-yurp.
CEN 10 lalok mok nok yorok ghriok klok.	ARC 10 wat nnat gat mat bat hilat.
CEN 11 lalok nok crrrok hihok yorok zanzanok.	ARC 11 wat nnat arrat mat zanzanat.
CEN 12 lalok rarok nok izok hihok mok.	ARC 12 wat mat forat

We want to use this information to translate the original peace message from the Centauri so we can send this to the Arcturans. After some years a reply message in Arcturan is received. It reads: 'totat nnat forat arrat mat bat.' Since it's likely that we on earth will understand Centauri before Arcturan because of the closeness of its solar system, we would like to translate this sentence to Centauri.

**Question 8.** (Write your answers on the separate answer sheet.)

1. Translate the Centauri message (repeated below) into Arcturan.

CEN: farok crrrok hihok yorok klok kantok ok-yurp.

2. Translate the Arcturan reply (repeated below) into Centauri.

ARC: totat nnat forat arrat mat bat.

## 9. Waanyi (25 marks)

Waanyi is an Australian language that used to be spoken south of the Gulf of Carpentaria in country that straddles the border between the states of Queensland and the Northern Territory. Few fluent speakers remain and our knowledge of this language now relies mainly on audio recordings made between the 1960's and 2008.

On the next page you will find a transcribed and translated story told by a Waanyi speaker.

**Question 9.** (Write your answers on the separate answer sheet.)

Translate these Waanyi sentences into English:

1. Jungku ngawu rajini.
2. Jawikajba barri bula nayi bururri.
3. Budangku ngawu balikajba jalanya.

Translate these English sentences into Waanyi:

4. The man and the woman are sitting here.
5. That woman eats fish.
6. This man cooks that meat standing under a tree.

1	Karrinja nyulu kirriya barrawunu.	The woman is standing in the house.
2	Jungku nyulu burru kundana.	The man is sitting under a tree.
3	Jungku bula nawunu rajini.	They are here in the camp.
4	Dabarraba nyulu waliji, nangkani burru.	This man is cooking meat.
5	Balikajba nyulu, walijiyanyi, nana kirriya.	She is hungry for meat, that woman.
6	Nayi burru, lalubu nyulu.	This man, he gets up.
7	Kanungku barri nyulu jilaba kirriyawuru.	He then goes up to the woman.
8	Wijbi barri nyulu kirriya walijiyanyi jangkaranyiyanyi, karrinjawuru.	Then he gives some cooked meat to the woman who's standing.
9	Nanangkani kirriyaa, nanganja barri nyulu manii nana waliji burru.	That woman, she then takes that meat with her hand from the man.
10	Jarba barri nyulu, balikajini, nanangkani kirriyaa, nana waliji, karrinjana nanawunu barrawunu.	Then that woman hungrily eats that meat, standing there in the house.
11	Jawikajba barri nyulu burru: Ninji, wanyi ninji jarba?	She then asks the man. What are you eating?
12	Budangu ngawu jarba jalanya.	I'm not eating now.
13	Jilakanyi ngawu kakuwanyi nanganjaanyi. Karubu-yanyba ngawu.	I'll go and catch some fish. I'm going fishing.
14	Wunjuku ninji jilaba?	Where are you going?
15	Kularra ngawu jilaba, nanangkurru manangkawuru.	I'm going south, to that river.
16	Ngabungabu, malijibi nyulu kirriyaa, banjana nyulu jilaba.	Late afternoon, the woman followed him, she went after.
17	Najba barri nyulu, burru, jungkuwuru, karubu-yanykurru.	Then she saw the man sitting fishing.
18	Manangkana nyulu jungku, nana burru.	That man was sitting by the river.
19	Najba nyulu kirriya, kanungkuwuru.	He saw the woman approaching.
20	Kawa! Jilanji nangkurru.	Come! Come here!
21	Jawikajba nyulu burru kanungkunu.	She asked the man as she approached.
22	Kaku ninji nanganja?	Have you caught any fish?
23	Budangu ngawu kakuwanyi.	I've got no fish.
24	Budangu nayi kakuwanyi.	There's no fish here.
25	Ngamuyu-kiya ninji nanganja kaku nawunu. Kaja.	I thought you would have caught fish here. Lots.
26	Yanyba nyulu nangangi.	He said to her:
27	Najba ngawu kaku nawunu wanamini, bilikjawuru, bungkuna.	I saw fish swimming here in the water yesterday.
29	Budangu yalu balikajba walijiyanyi jalanya.	They are not hungry for meat right now.
30	Ngadijbi yaluwangka bulinjana.	They are hiding in the water-grass.
31	Rajiwuru barri bula kannga, budangu kakuwanyi.	They both returned home, without any fish.
32	Balikajini bula kannga rajiwuru, kirriya, burru.	They both return home hungry – the woman (and) the man.