SMZ

ZANZIBAR EXAMINATIONS COUNCIL

FORM ONE ENTRANCE EXAMINATION

129

SCIENCE

TIME: 2:30 Hours

FRIDAY,29th NOVEMBER 2019 a.m.

INSTRUCTIONS TO CANDIDATES

- 1. This paper consists of THREE (3) sections A, B and C.
- 2. Answer ALL questions in section A and B, and any TWO (2) questions in section C.
- 3. Write your answers in the space provided.
- 4. Write your examination number on each page.
- 5. Use blue or black pen in writing and drawings must be in pencil.
- 6. Cellular phones are not allowed in the examination room.

FOR EX	FOR EXAMINER'S USE ONLY						
QUESTION NUMBER	MARKS	SIGNATURE					
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
13.							
TOTAL							

This paper consists of 11 printed pages

SECTION A: (30 MARKS)

Answer **ALL** questions

1. Choose the correct answer from the given alternatives and put its letter in the box below the questions.

i.	It is an STI infection A: Cholera B: Malaria C: Gonorrhoea D: Cold
ii.	Ribs and lungs are organs inA: Respiratory systemB: Digestive systemC: Nervous systemD: Skeletal system
iii.	An attractive part of a flower A: Filament B: Stalk C: Sepal D: Petal
iv.	A liquid hasA: Fixed shapeB: High boiling pointC: Changing meniscusD: Fixed volume
v.	The cochlea is found in A: Inner ear B: Outer ear C: Middle ear D: Semi circular canals
vi.	The drugs for an HIV positive person is A: VCT B: ARV C: AIDS D: ICT
vii.	Nitrogenous waste products are removed from the body by A: Heart B: Nose C: Liver D: Kidney
viii.	The first leaf of a seed is A: Testa B: Cotyledon C: Plumule D: Radicle
ix.	A submarine can float or sink becauseA: It is lighter than waterB: It is heavier than waterC: It is designed to float or sinkD: It can fill air or water in its tank

- x. The role of an iris in an eye is
 - A: To reflect the light
- B: To change the size of a pupil
- C: To direct the light rays D: To keep the image

Answers

i	ii	iii	iv	V	vi	vii	viii	ix	х

2. Match the sentences in **LIST A** with a correct response from **LIST B.** Write the letter in the box below the questions.

LIST A	LIST B.
i. Blood fluid	A. Cells in series
ii. Omnivorous	B. Water ,light, carbon dioxide, chlorophyll
iii. Pollination	C. Plasma
iv. Electric current	D. Sore throat and dark skin
v. $V=V_1+V_2+V_3+$	E. Thicker at the middle
vi. Effort	F. Thinner at the middle
vii. Photosynthesis	G. Condensation
viii. Diptheria	H. Eat grasses and meat
ix. Convex lens	I. Eat meat
x. Rainfall formation	J. Conservation
	K. Ammeter
	L. Pollen to anther
	M. Pull or push
	N. Pollen to stigma

Answers

i	ii	iii	iv	V	vi	vii	viii	ix	х

- 3. For each statement write **T** if the sentence is **TRUE** and **F** if the sentence is **FALSE** Write the answers in the table below the questions.
 - i. The sun is an artificial source of light.
 - ii. Marasmus is caused by lack of protein.
 - iii. Puberty is the change from child hood to adult hood
 - iv. The oviduct produces ova.
 - v. The process of photosynthesis takes plant in the plant leaf.
 - vi. The current flows only when there is a closed circuit.
 - vii. Duodenum is the first part of small intestine.
 - viii. Image in human eye is formed in the iris
 - ix. Dynamite is the best method of fishing.
 - x. Ureter transports urine from kidneys to urinary bladder.

Answers

i	ii	iii	iv	V	vi	vii	viii	ix	х

SECTION B: (50 Marks)

Answer **ALL** questions in this section

- 4. Choose the correct answers from the box below and fill in the blanks.
 - a) The ______is a pumping organ of blood.
 - b) The blood is purified in the ______.
 - c) A blood vessel that carries blood from the heart is ______.
 - d) A blood vessel that carries blood towards the heart is_____.
 - e) The _____are the smallest blood vessels.
 - f) Blood in the pulmonary artery has much ______and lacks______.
 - g) The upper chambers of the heart are called______.
 - h) The lower chambers of the heart are called ______.
 - i) The adult human has an average of ______beats per minute.

Auricles, ventricles, kidney, artery, vein, , 92, carbon dioxide, , capillaries, lungs, aorta, septum, oxygen, heart, 72

5.	a)	Define	the terms:	Candidate's Examination Number
		i)	Air	
		ii)		
	b)	The gas		d in breathing in human is
	c)	i) Fill i	in the amount	t of the composition of the given gases in air
			Gas	Composition in air
		Nitro	ogen	
		Cart	oon dioxide	
		Rare	e gases	
		ii) Th	e gas which is	s missing in the table is
		iii) Th	ne gas which i	is used to put off the fire is
6.	a)	Mentio	n the two (2)	main parts of the nervous system.
		i)		
		ii)		
	b)	List two	o (2) function	s of the brain.
		i)		
		ii)		

Candidate's Examination Number _____

c) Draw the structure of the human brain. On it show

Fore brain , hind brain , mid brain and spinal cord

7. a) What are aquatic animals?

b) In the given aquatic animals, fill in the table below the ones with backbone and without backbone.

Turtle, crab, whale, dolphin, shark, octopus

Without backbone	
	Without backbone

- c) List four (4) economic importances of aquatic animals

8. a) What is germination?

))	Identify the type of germination in the following seeds. Fill the answers in the tal below.							
	bean, maize, pea, groundnut , r	ice , millet, mango, orange						
	Seeds of epigeal germination	Seeds of hypogeal germination						

c) Write in the table below a difference between epigeal germination and hypogeal germination.

Epigeal germination	Hypogeal germination

9. a) Draw the two (2) types of lenses

- b) Identify the part of the eye below which is described in the following:
 - i) It is made of elastic tissue. It constricts or dilates ______.
 - ii) A small dark opening in the centre of the iris muscles______.

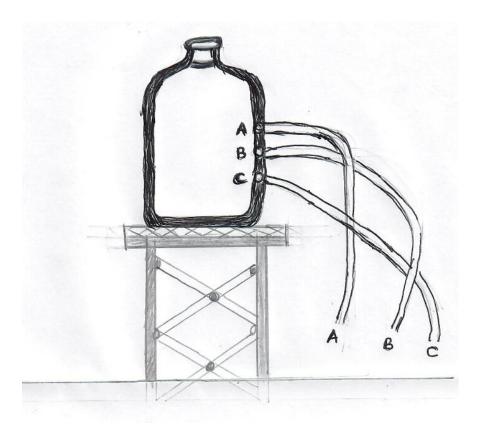
- iii) It is made of transparent fluid that fills the first chamber______.
- iv) It is a transparent outer part of the eye_____.(cornea, pupil, iris, aqueous humour, lens)

SECTION C: (20 Marks)

Answer any **two (2)** questions

10. a) what is pressure?

b) The diagram below shows the effect of height in pressure, study it and then answer the questions.



					Candida	te's E	xaminatio	on Number	
	-							k is	
								ank is	·
	iv)	The reaso	n in (iii)	is					 _•
	v)	Outline tw							
	vi)							ne ground le	
11.	Draw							e following	
	i.	Stigma	ii. Sty	/le iii.	Ovary	iv.	Anther	v. Petal	

vi. Sepal

12. a) What is electricity?

b) Study the pictures of electrical devices below. Write the symbols used in these pictures.

В









С



D

		Candidate's Examination Number
13.	a)	Define magnet.
	b)	Name two (2) substances that can be attracted by a magnet.
		i)
		ii)
	c)	State the two (2) laws of magnet.
		i
		ii
	d)	Mention any four (4) devices that use magnet.
		i
		ii
		iii
		iv
