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	AMINER'S USE ON	ILY
QUESTION NUMBER	MARKS	SIGNATURE
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.	<u> </u>	
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 in

A: Respiratory system B: Digestive system C: Nervous system D: Skeletal system

iii. An attractive part of a flower

A: Filament B: Stalk C: Sepal D: Petal

iv. A liquid has

A: Fixed shape B: High boiling point C: Changing meniscus D: 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 because

A: It is lighter than water B: It is heavier than water

C: It is designed to float or sink D: 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	٧	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	٧	vi	vii	viii	ix	Х
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Candidate's Examination Number	
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- 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	٧	vi	vii	viii	ix	Х

SECTION B: (50 Marks)

Answer **ALL** questions in this section

4.	Cho	ose the correct answers from the box below and fill in the blanks.
	a)	Theis a pumping organ of blood.
	b)	The blood is purified in the
	c)	A blood vessel that carries blood from the heart is
	ď)	A blood vessel that carries blood towards the heart is
	e)	Theare the smallest blood vessels.
	f)	Blood in the pulmonary artery has muchand
		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 ofbeats per minute.
		Auricles, ventricles, kidney, artery, vein, , 92, carbon dioxide, , capillaries, lungs, aorta, septum, oxygen, heart, 72

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5.	a)	Define the terms:	
		i) Air	
			_
		ii) Combustion	_
			_
	b)	The gas which is used in breathing in human is	
	c)	i) Fill in the amount of the composition of the given gases in air	
		Gas Composition in air	
		Nitrogen	
		Carbon dioxide	
		Rare gases	
		ii) The gas which is missing in the table is	
		iii) The gas which is used to put off the fire is	
5.	a)	Mention the two (2) main parts of the nervous system.	
		i)	
		ii)	
	b)	List two (2) functions of the brain.	
		i)	
		ii)	

	c)	Candidate's Examination Number 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
		With backbone Without backbone
	c)	List four (4) economic importances of aquatic animals
		i)
		ii)
		iii)
		iv)

		Candidate's Examination Number
8.	a)	What is germination?
	b)	Identify the type of germination in the following seeds. Fill the answers in the table below.
		bean, maize, pea, groundnut, rice, 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

A small dark opening in the centre of the iris muscles_

ii)

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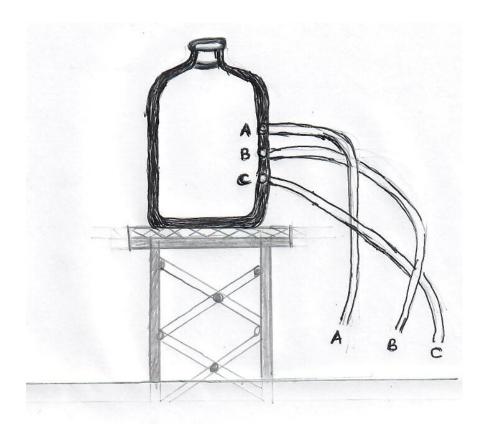
- iii) It is made of transparent fluid that fills the first chamber______.
- iv) It is a transparent outer part of the eye______

 (cornea, pupil, iris, aqueous humour, lens)

SECTION C: (20 Marks)Answer any **two (2)** questions

10.	a) what is pressure?	what is pressure?						

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



	i) The hole which sends the longest jet from the tank is				
	ii)	The reason in (i) is			
	iii)	The hole which sends the shortest jet from the tank is			
	iv)	The reason in (iii) is			
	v)	Outline two (2) applications of pressure in water.			
		.			
	vi)	Why is the supplying water tanks placed above the ground level?			
		<u> </u>			
11.	Draw the longitudinal section of a flower, on it show the following				
	i.	Stigma ii. Style iii. Ovary iv. Anther v. Petal			
	vi.	Sepal			

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12. a) What is electricity?

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



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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.
