

Candidates' Examination Number \_\_\_\_\_

SMZ

ZANZIBAR EXAMINATIONS COUNCIL

FORM ONE ENTRANCE EXAMINATION

129

SCIENCE

TIME: 2 :30 HOURS

FRIDAY, 18<sup>TH</sup> DECEMBER 2020 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 only TWO (2) questions in section C.
3. Write your examination number on each page.
4. Write all answers in the space provided.
5. Use a blue or black pen in writing. Drawing must be in pencil.
6. Cellular phones and unauthorized materials are not allowed in the examination room.

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 10 printed pages

SECTION A: (30 Marks)

Answer ALL questions in this section.

1. Choose the correct answer from the given alternatives and write its letter in the table below.

- i. The organisms which have stronger incisors teeth are  
A. Insectivorous    B. Carnivorous    C. Herbivorous    D. Omnivorous
- ii. Which organ is used to detect vibration of sound?  
A. Nose    B. Mouth    C. Skin    D. Ear
- iii. The other term for short sightedness is  
A. Myopia    B. Hypermetropia    C. Astigmatism    D. Blindness
- iv. Xylem and phloem are present in  
A. Upper epidermis    C. Palisade mesophyll  
B. Lower epidermis    D. Spongy mesophyll
- v. The common type of cells used in electricity are  
A. Large and small cells    C. Wet and large cells  
B. Dry and big cells    D. Wet and dry cells
- vi. Deficiency of vitamin B<sub>1</sub> in diet can cause  
A. Marasmus    B. Beriberi    C. Goitre    D. Pellagra
- vii. Boiling point of water is  
A. 0 °C    B. 100 °C    C. 10 °C    D. 78 °C
- viii. Sneezing and coughing are the methods of spreading  
A. STDs germs    C. HIV/AIDS germs  
B. Air borne disease germs    D. Water borne disease germs
- ix. Which one of the following can pass in all three states of matter  
A. Water    B. Metal iron    C. Piece of wood    D. Plastic
- x. One of the following is not an agent of soil erosion  
A. Wind    B. Moving water    C. Moving animals    D. Waste disposal

Answers

i	ii	iii	iv	v	vi	vii	viii	ix	x

2. Match the sentence in LIST A with the corresponding word in LIST B.  
Write its letter in the table below.

LIST A	LIST B
i. Saliva has digestive enzyme called	A. Reproductive
ii. The process of breaking down food into smaller particles	B. Dynamo
iii. First class lever	C. Oxygen
iv. Light travels in a straight line	D. Too much sweating at night
v. Change mechanical energy into electrical energy	E. Law of reflection
vi. A bacteria that cause gonorrhea	F. Earthworms
vii. It is used in the process of burning substances	G. Fish
viii. Symptom of Tuberculosis	H. Amylase
ix. The agents of pollination	I. Insects and birds
x. Organisms that live in the soil	J. Fulcrum at center
	K. Effort at center
	L. Digestion
	M. Rectilinear propagation
	N. Motor
	O. Neisseria

Answers

i	ii	iii	iv	v	vi	vii	viii	ix	x

3. Write TRUE if the sentence is right and FALSE if the sentence is wrong in the given spaces.

- |   |       |
|---|-------|
| i. Organisms living in the soil give nutrients in the soil. | _____ |
| ii. The liquid found in thermometers is water and spirit.   | _____ |
| iii. The respiratory surface is thin and well-ventilated.   | _____ |
| iv. White blood cells are made up in the bone marrow.       | _____ |
| v. Photosynthesis needs two conditions only.                | _____ |
| vi. Chlorophyll pigment captures sunlight energy.           | _____ |
| vii. Pregnant women need different kinds of nutrients.      | _____ |
| viii. Obesity is the condition of becoming too thin.        | _____ |
| ix. The water pressure increases as the depth increase.     | _____ |
| x. Plastics are waste products that decay easily.           | _____ |

SECTION B: (50 Marks)

Answer ALL questions in this section.

4. Fill in the blanks by choosing the correct words in the box below.

- a) Two substances which are attracted by a magnet are \_\_\_\_\_ and \_\_\_\_\_.
- b) Temperature is measured by instrument called \_\_\_\_\_, within it there is a liquid called \_\_\_\_\_.
- c) In germination the plumule develops into a \_\_\_\_\_ and the radicle develops into a \_\_\_\_\_.
- d) The peripheral nervous system consists of neurons, \_\_\_\_\_ nerves and the \_\_\_\_\_ nerves.
- e) The \_\_\_\_\_ rotates the wind turbine which makes the generator to produce \_\_\_\_\_.

Thermometer, root, iron, cranial, stick, shoot, propeller, medicine, spinal, sound, hygrometer, carbon, nickel, electricity, mercury, heat

5. a) Write the meaning of the following terms.

i. Voluntary counseling (VC)

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ii. Voluntary testing (VT)

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b) List down two (2) importance of Voluntary Counseling and Testing (VCT).

- i. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- ii. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. a) What is boiling point?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

b) Name the two (2) types of hardness of water.

- i. \_\_\_\_\_ ii. \_\_\_\_\_

c) Identify the type of water that forms lather easily with soap. Give one (1) example.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

d) Identify the type of water that does not form lather easily with soap. Give one (1) example.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. Draw the diagram of the longitudinal section of the human heart.
- Label the four (4) chambers of the heart.
  - Show the aorta, pulmonary vein and pulmonary artery.

8. a) What is a fruit?

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- b) Name the two (2) types of fruits. Give one (1) example in each case.

i. \_\_\_\_\_ example \_\_\_\_\_

ii. \_\_\_\_\_ example \_\_\_\_\_

- c) Mention the three (3) parts of the fruits.

i. \_\_\_\_\_

ii. \_\_\_\_\_

iii. \_\_\_\_\_

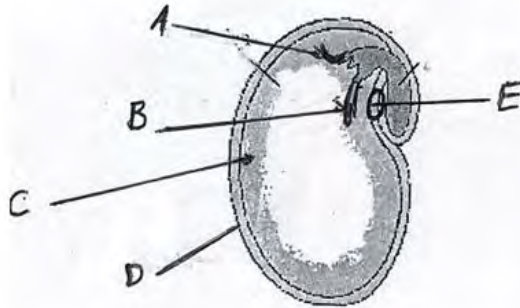
9. a) Mention three (3) conditions which are necessary for germination.

i) \_\_\_\_\_

ii) \_\_\_\_\_

iii) \_\_\_\_\_

- b) Label the parts of a longitudinal section of a bean seed shown below.



A \_\_\_\_\_ B \_\_\_\_\_

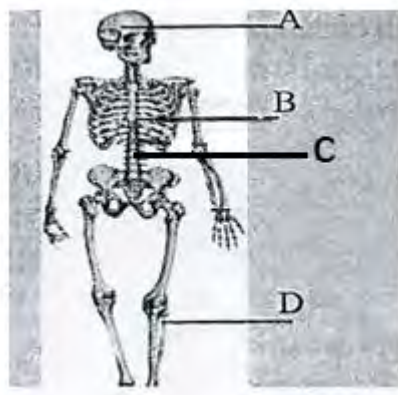
C \_\_\_\_\_ D \_\_\_\_\_

E \_\_\_\_\_

### SECTION C: (20 Marks)

Answer any TWO (2) questions in this section.

10. a) Below is a diagram that shows the structure of the skeletal system of a human being. Label the parts indicated by letters A to D.



A. \_\_\_\_\_ B. \_\_\_\_\_

C. \_\_\_\_\_ D. \_\_\_\_\_

b) List three (3) functions of the human skeletal system.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_
- iii. \_\_\_\_\_

11. a) What is alimentary canal?

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b) Name the main parts of digestive system of a human.

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c) i. Mention one (1) organ that helps the process of digestion.

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ii. Name one (1) gland that helps the process of digestion.

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12. a) Write a short essay on three (3) ways of transmission of HIV/AIDS.

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[illegible]

- b) Mention any two (2) ways to take care of PLWHA at home.

- i. \_\_\_\_\_
- \_\_\_\_\_
- ii. \_\_\_\_\_
- \_\_\_\_\_

13. a) State any use of lenses.

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- b) Draw the diagram to show the structure of the human eye showing the following parts: iris, lens, pupil, cornea, retina, optic nerve.