

SMZ

**ZANZIBAR EXAMINATIONS COUNCIL  
FORM ONE ENTRANCE EXAMINATION**

129

SCIENCE

TIME: 2.00 HOURS

TUESDAY 27<sup>th</sup> NOVEMBER, 2018 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 spaces provided.
4. Write your examination number on each page.
5. Cellular phones are not allowed in the examination room.

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

**This paper consists of 12 printed pages**

**SECTION A: (30 Marks)**

**Answer ALL questions**

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

i. Machine is anything that

A. Complicates work

B. Simplifies work

C. Has energy

D. Moves

ii. Material that transmits heat easily is called

A. Conductor

B. Insulator

C. Rubber

D. Plastic

iii. Carnivorous animals have

A. Strong incisors

B. Long Molars

C. Strong canines

D. Long beak

iv. Organic substances that are added to the soil to provide plant nutrients

A. Manure

B. Mulching

C. Fertilizers

D. Salt

v. Red blood cells are also called

A. Plasma

B. Leucocytes

C. Thrombocytes

D. Erythrocytes

- vi. The process of counselling service provided before and after HIV and AIDS testing
  - A. Stigmatization
  - B. Voluntary counselling
  - C. Involuntary counselling
  - D. Involuntary testing
  
- vii. Matter is anything which has
  - A. Weight and occupy space
  - B. Weight only
  - C. Mass only
  - D. Weight and length
  
- viii. Example of airborne disease
  - A. Cholera
  - B. HIV/AIDS
  - C. Tuberculoses
  - D. Typhoid
  
- ix. The vertebral column is also known as
  - A. Spinal cord
  - B. The Brain
  - C. The skull
  - D. Backbone
  
- x. Pawpaw is an example of
  - A. Dry fruit
  - B. Fleshy fruit
  - C. Seed fruit
  - D. Dry seed fruit

**ANSWERS**

<b>i</b>	<b>ii</b>	<b>iii</b>	<b>iv</b>	<b>v</b>	<b>vi</b>	<b>vii</b>	<b>viii</b>	<b>ix</b>	<b>x</b>

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

<b>LIST A</b>	<b>LIST B</b>
i. The most dangerous disease that has no cure or vaccination ii. The main aim of rendering First Aid iii. The function of the eye iv. Aquatic animals v. The main source of energy on the Earth vi. Direct current generator vii. Activity that lead to soil degradation viii. Group of rays ix. The main hazard of heat on the Earth x. Respiratory organ of fish	A. Release of toxic waste. B. Rise in temperature C. Sun D. Land animals E. To save life of the victim F. Beam G. Effort/load H. skin I. To cure victim J. HIV/AIDS K. Live in water L. Gills M. Seeing or vision N. Moon O. Dynamo P. Hearing

**ANSWERS**

<b>i</b>	<b>ii</b>	<b>iii</b>	<b>iv</b>	<b>v</b>	<b>vi</b>	<b>vii</b>	<b>viii</b>	<b>ix</b>	<b>x</b>

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.

- i. The direction to which the compass needle point is magnetic north.
- ii. The brain is the powerful muscular organ that pumps the blood.
- iii. The long form of HEP is Hydro - Electric Power.
- iv. Meat, fish, eggs and milk are foods that have protein.

- v. Pollination is the transfer of pollen grains from stigma to anther.
- vi. Diabetic is caused by lack of enough carbohydrates.
- vii. The largest organ in a human body is the skin.
- viii. The process by which the seed change into fruit is germination.
- ix. A solvent is a substance that can dissolve solute.
- x. The voltmeter is used to measure current.

**ANSWERS**

<b>i</b>	<b>ii</b>	<b>iii</b>	<b>iv</b>	<b>v</b>	<b>vi</b>	<b>vii</b>	<b>viii</b>	<b>ix</b>	<b>x</b>

**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) Water is a \_\_\_\_\_ that covers about seventy percent of the earth's surface.
  - b) The spinal cord is the extension of the \_\_\_\_\_.
  - c) Testes are enclosed by tough tissue called \_\_\_\_\_.
  - d) The process by which plants make their own food is \_\_\_\_\_.
  - e) The act of a body to fall down the bottom of a fluid \_\_\_\_\_.
  - f) The current flows in a pathway called \_\_\_\_\_.
  - g) Part of the ear that collects and directs sound waves onto the ear drum is \_\_\_\_\_.
  - h) A magnet is a piece of metal made up of \_\_\_\_\_.
  - i) Lack of iodine minerals in the diet leads to \_\_\_\_\_.
  - j) The human tongue is a special organ for \_\_\_\_\_.

solid, faeces, brain, inquiry, liquid, photosynthesis, electric circuit,  
 iron, plastics, pinna, tasting, goitre, skin, sinking, digestion, scrotum,  
 ammeter, smelling, scurvy.

5. a) Define the following terms

i) Sense organ

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ii) Respiratory system

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b) Write down four (4) functions of the skin.

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

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

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

(iv) \_\_\_\_\_

6. a) Define electricity.

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b) List down two (2) types of circuits.

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

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

c) Draw the following electrical symbols

No.	Name	Symbol
i	Voltmeter	
ii	Ammeter	
iii	Cell	
iv	Wire	
v	Switch	

7. a) Define a fruit

\_\_\_\_\_

\_\_\_\_\_

b) List the four (4) main parts of the fruit.

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

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

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

iv) \_\_\_\_\_

c) List down two (2) examples of dry fruits

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

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

8. a) What is a lever?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

b) Mention three (3) main parts of lever

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

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

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

c) Draw the diagram of seesaw to show the parts of lever



9. a) Name two (2) sources of water.
- i) \_\_\_\_\_
  - ii) \_\_\_\_\_
- b) Identify two (2) causes of water pollution.
- i) \_\_\_\_\_
  - ii) \_\_\_\_\_
- c) Mention any four (4) uses of water.
- i) \_\_\_\_\_
  - ii) \_\_\_\_\_
  - iii) \_\_\_\_\_
  - iv) \_\_\_\_\_

**SECTION C: (20 Marks)**

**Answer any two (2) questions**

10. a) Put the kind of foods in proper food nutrients
- Mango, cassava, groundnut, potato, crabs, cashewnuts, Octopus, orange.
- i) Minerals \_\_\_\_\_
  - ii) Carbohydrates \_\_\_\_\_
  - iii) Vitamins \_\_\_\_\_
  - iv) Lipids (Fats and oils) \_\_\_\_\_
- b) i) Explain the meaning of malnutrition
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

ii) Deficiency of vitamin A in the diet causes \_\_\_\_\_

c) The signs of different nutritional disorders are in the box below. Pick out and write any three (3) signs of marasmus.

loss of body weight , hair loses its colour, bending of long bones, skin becomes dry and rough, swollen and protruding stomach, legs and arms become thin

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

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

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

11. a) What can one do in order to make the body healthy?

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

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

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

(iv) \_\_\_\_\_

(v) \_\_\_\_\_

b) Outline the cares needed for people living with HIV/AIDS

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

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

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

(iv) \_\_\_\_\_

(v) \_\_\_\_\_

12. a) Why an elderly person need:-

(i) Food with less energy

\_\_\_\_\_

(ii) Food with rich in fibre

\_\_\_\_\_

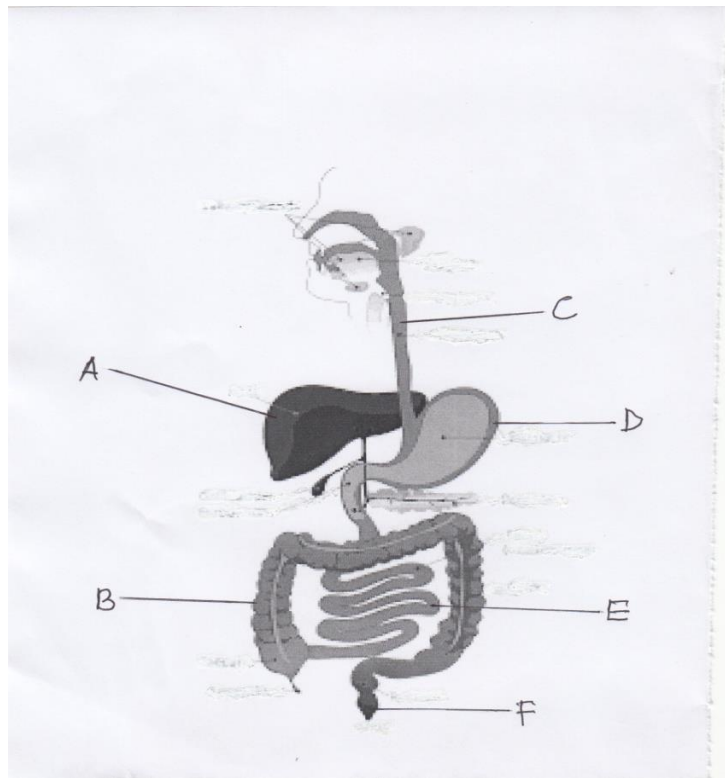
(iii) Food rich in minerals

\_\_\_\_\_

(iv) Balanced diet

\_\_\_\_\_

b) Below is a diagram showing the structure of digestive system of human, study it carefully and then label the parts indicated by letters A, B, C, D, E and F.



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

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

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

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

E. \_\_\_\_\_ F. \_\_\_\_\_

13 a) What are water - borne diseases?

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b) Write down bacteria that causes cholera.

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c) Give any three (3) symptoms of cholera.

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

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

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

d) Identify any three (3) prevention ways of cholera.

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

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_

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