

Candidate's Examination Number _____

THE REVOLUTIONARY GOVERNMENT OF ZANZIBAR

ZANZIBAR EXAMINATIONS COUNCIL

FORM ONE ENTRANCE EXAMINATION

114

SCIENCE AND TECHNOLOGY

TIME: 2.30 HOURS

WEDNESDAY 1ST NOVEMBER, 2023 A.M

INSTRUCTIONS TO THE CANDIDATE

1. This paper consists of THREE (3) sections A, B and C.
2. Answer ALL questions in section A and B, and any THREE (3) questions in section C. Questions number 12 and 13 are **COMPULSORY**.
3. All answers must be written in space provided under each question.
4. Write your examination number on each page.
5. Use a blue or black pen in writing and drawing must be in pencil.
6. Cellular phones and unauthorized materials are not allowed in the examination room.

QUESTION NUMBER	FOR EXAMINER'S USE ONLY	
	MARKS	SIGNATURE
1.		
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This paper consists of 13 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. Which of the following is an aquatic animal living in salt water?

A. Crocodile	B. Lobster
C. Lizard	D. Frog
 - ii. What is the name of the attractive part for insects and birds in the flower?

A. Filament	B. Petals
C. Sepals	D. stalk
 - iii. The process of removing upper layer of earth's surface is known as

A. Soil erosion	B. Soil fertility
C. Soil structure	D. Soil particles
 - iv. A standard six student collect waste and then burn it by using match box, this action is called

A. Air	B. Atmosphere
C. Combustion	D. Composition
 - v. A piece of dry wood is used in first aid for victim of electric shock because

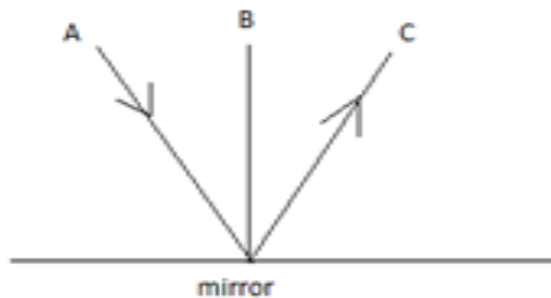
A. It is an insulated material	B. It catch fire
C. It is a conductor	D. It is a metallic object
 - vi. Which part of the eye protects the eye?

A. Lens	B. Pupil
C. Retina	D. Sclera
 - vii. The direction of current when a cell is connected in a circuit is from

A. High to low voltage	B. Negative to positive
C. North to south	D. Positive to negative

- viii. A wheel barrow is said to be a second class lever because
- A. Effort is between load and fulcrum
 - B. Fulcrum is between load and effort
 - C. Fulcrum located between effort and load
 - D. Load is between effort and fulcrum
- ix. The type of library that is open to anyone from all communities is called
- A. Academic
 - B. Public
 - C. Reference
 - D. Special
- x. Which of the following units represent millions of cycles per second?
- A. HZ
 - B. GHZ
 - C. KHZ
 - D. MHZ
- xi. The digestive enzyme which digests soluble milk protein into insoluble milk protein is called
- A. Amylase
 - B. Renin
 - C. Sucrase
 - D. Trypsin
- xii. The correct name for the blood vessel which carries deoxygenated blood from heart to the lungs is
- A. Arteries
 - B. Capillaries
 - C. Pulmonary artery
 - D. Pulmonary vein
- xiii. Which of the following is a melting point of an ice?
- A. 0°C
 - B. 10°C
 - C. 78°C
 - D. 100°C
- xiv. A person is suffering from chest pain and sweating too much at night. Which of the following airborne diseases is related to those symptoms?
- A. Diphtheria
 - B. Measles
 - C. Small pox
 - D. Tuberculosis

xv. In figure 1 below the line C represent



A. Incident Ray

B. Incident Angle

C. Reflected Ray

D. Reflected Angle

ANSWERS

i	ii	iii	iv	v	vi	vii	viii	ix	x	xi	xii	xiii	xiv	xv

2. Match the meaning in **LIST A** with their soil terminologies in **LIST B**. Write the letter of correct answer in the table below.

LIST A	LIST B
i. Ability of soil to provide nutrients for plant growth	A. Leaching
ii. Deposition of unwanted materials on the land	B. Afforestation
iii. Planting of trees on the soil	C. Soil erosion
iv. Protective covering of a piece of land by organic matter such as leaves straw.	D. Mulching
v. They help in the process of soil formation	E. Soil fertility
	F. Soil organism
	G. Soil pollution

ANSWERS

LIST A	i	ii	iii	iv	v
LIST B					

3. Write **T** if the statement is **TRUE** and **F** if the statement is **FALSE**. Write the answer in the table below.
- i. Ammeter is used to measure the amount of voltage passed in a circuit.
 - ii. Gulley erosion occurs when the rain water moves along the steep slope.
 - iii. Obesity is a nutritional disorder due to much feeding.
 - iv. During photosynthesis water combines with oxygen to form starch.
 - v. One of the importances of fish keeping is for research purpose.
 - vi. Submarine is a type of boat that can travel on top of water only.
 - vii. Adolescence is a period in which a child growth both physically and mentally.
 - viii. Recycling of plastic bottles is used to control soil pollution.
 - ix. Lipids provide energy to the body when carbohydrate is not available.
 - x. Computer database is an example of manual documentation.

ANSWERS

i	ii	iii	iv	v	vi	vii	viii	ix	x

SECTION B: (40 Marks)

Answer ALL questions in this section.

4. Choose the correct answer from the box below and fill in the blanks.
- i. The water vapour given off by the plant in to the air is called _____
 - ii. Young and underdevelopment new plant found in the seed is called _____
 - iii. Voluntary counselling is the service provided to a person before and after _____ and AID testing.
 - iv. The additional amount of supplementary charge is known as _____
 - v. Table of contents help to find the names of chapter and _____ in the book.

Commission, server ,	guttation, HIV,	embryo, transpiration,	page number, ARVs
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5. a) Mention three (3) uses of air in everyday life.

- b) Global warming is caused by air pollution and harmful gases. State two (2) effects of global warming.

6. a) State two (2) applications of magnetic compass in everyday life.

- b) Draw a diagram which show magnetic field region.

7. a) Why do we need television antenna? (Give two reasons)

- b) Name three (3) uses of pamphlet.

10. a) Briefly explain the term germination.

- b) Write two (2) conditions required in the process of germination.

- c) Identify two (2) types of germination.

11. a) There are different sources which can produce electricity. Mention two (2) of them.

- b) Why are solar panels placed on the roof of the building?

SECTION C: (30 Marks)

Answer THREE (3) questions in this section.

Question twelve (12) and thirteen (13) are compulsory.

12. a) Different radio stations are found in Tanzania. Identify two (2) popular radio stations in Zanzibar.

- b) Explain the function of the following components of a radio set,
i. Tuning button

- ii. Meter band display

- c) Give short explanation on how to read a meter band of a particular radio station.

- 13 With the aid of diagram explain the mechanism of hearing in human being.

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This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

14. a) Suppose that your teacher gives you the following food substances, Meat, cassava, tomato, maize, milk and spinach. Classify them in terms of Carbohydrates, Proteins and Vitamins.

b) A child had problem of bending long bones in legs that failed to support his body weight.

i. Identify that disorder.

ii. List two (2) causes of that disorder.

iii. Suggest the control measure that should be taken to prevent that disorder.

15. a) Define the term conductor as applied in electricity.

b) Draw the symbols of the following electric components.

i. Resistors

ii. Voltmeters

iii. Ammeters

iv. Battery

- c) Give two (2) differences between series and parallel circuit.

16. a) Give the difference between fixed phone and mobile phone.

- b) Why do we keep our telephones away from the following materials?

i. Fire

ii. Chemical

iii. Water

c) Explain two (2) methods of handling mobile phones.

[illegible]

