

Candidate's Examination Number \_\_\_\_\_

P2FBK2B

114

**THE REVOLUTIONARY GOVERNMENT OF ZANZIBAR  
ZANZIBAR EXAMINATIONS COUNCIL  
FORM ONE ENTRANCE EXAMINATION  
SCIENCE AND TECHNOLOGY**

**TIME: 2:30 HOURS**

**FRIDAY 18<sup>TH</sup> OCTOBER, 2024 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 **THREE (3)** questions in section C. Questions number 12 and 13 are **COMPULSORY**.
3. All answers must be written in space provided.
4. Write your Examination Number on each page.
5. Use a blue or black pen in writing. Diagrams 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.		
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15.		
16.		
TOTAL		
CHERKER'S SIGNATURE		



**This paper consists of 13 printed pages**

**SECTION A: (30 Marks)**

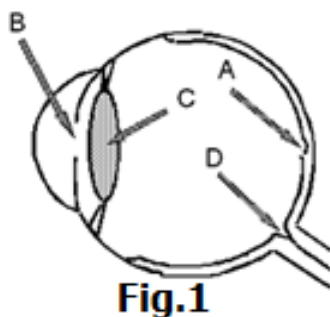
**Answer ALL questions in this section.**

1. Choose the correct answer from the given alternatives and write its letter in the table below.
  - i. What is the application of Microsoft Word program?
    - A. Designing pictures
    - B. Designing videos
    - C. Doing calculations
    - D. Typing texts
  - ii. Which oval-shaped of a male reproductive organ used to produce sperm?
    - A. Epididymis
    - B. Testes
    - C. Ureter
    - D. Urethra
  - iii. What is the name of the file created on MS Excel to manage data in tabular form?
    - A. Docsheet
    - B. Document
    - C. Spreadsheet
    - D. Workspace
  - iv. Which group of trained people provides counseling to the people living with HIV/AIDS?
    - A. Consultant
    - B. Counselee
    - C. Counselor
    - D. Doctor

v. Which of the following materials allows electricity to pass through?

- A. Conductor
- B. Fuse
- C. Insulator
- D. Switch

vi. The figure 1 shows a cross section of the human eye. Which part of the eye is represented by the latter B?



- A. Blind spot
  - B. Fovea
  - C. Pupil
  - D. Retina
- vii. Which of the following reptiles has a thick body shell and lives in sea water most of the time?
- A. Crocodile
  - B. Lizard
  - C. Tortoise
  - D. Turtle
- viii. Which one of the following components of electric circuit produces light?
- A. Battery
  - B. Bulb
  - C. Switch
  - D. Wire

- ix. Which of the following is an explosive fishing method that destroys coral and the breeding sites of fish in the water?
- Dynamite
  - Oil spills
  - Sewage disposal
  - Sine net fishing
- x. Among the eroded coastal areas in Pemba which are destroyed by strong waves of the sea are
- Bopwe and Pandani
  - Pujini and Kwale
  - Kojani and Muwambe
  - Mtambile and Msuka

**Answers**

i	ii	iii	iv	v	vi	vii	viii	ix	x

2. Match the uses of peripheral devices in **LIST A** with their types in **LIST B**. Write the letter of the correct answer in the table below.

<b>LIST A</b>	<b>LIST B</b>
i. It is used to enter letters and numbers into the computer	A. Joystick
ii. It is used to display images, texts and graphics	B. Keyboard
iii. It is used to produce hard copies of documents	C. Microphone
iv. It captures video and transmits to the computer	D. Monitor
v. It is used to convert physical document into digital format	E. Printer
	F. Scanner
	G. Webcam

**ANSWERS**

<b>LIST A</b>	i	ii	iii	iv	v
<b>LIST B</b>					

3. Write **T** if the statement is **TRUE** and **F** if the statement is **FALSE**. Write the answer in the table below.

- i. www.google.com is an example of a search engine.
- ii. Sheet erosion is commonly observed on the gentle slopes.
- iii. A dynamo is a kind of machine which converts electric energy to mechanical energy.
- iv. The terracing method is among the preventive measures against soil erosion.
- v. A drawing toolbar is used to format MS Word document.
- vi. Strong water current can cause drowning of marine vessels.
- vii. A tablet is an example of social media icon.
- viii. Anti-retroviral drugs (ARVs) helps to boost the patient's immunity.
- ix. Sharing needles and razor blades can transmit HIV.
- x. When you turn a screw, you apply force along its inclined plane.

**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.

Layer, three, simple machine, row, two, printer, monitor

- i. An electric cell has \_\_\_\_\_ terminals.
- ii. A selected cell in which data are entered is called \_\_\_\_\_
- iii. Soil erosion is the removal of top \_\_\_\_\_ of the soil by water or wind.
- iv. A horizontal line of cells in the worksheet is known as \_\_\_\_\_
- v. A device that enables to work easier is called \_\_\_\_\_

5. a) Identify four (4) precautions to be taken to prevent the hazards of water in our society.
- i. \_\_\_\_\_
  - ii. \_\_\_\_\_
  - iii. \_\_\_\_\_
  - iv. \_\_\_\_\_
- b) What will happen when inexperienced swimmers sink in deep water?
- \_\_\_\_\_
- \_\_\_\_\_
6. a) Name the type of simple machines that can be used in the following cases.
- i. Used to lift heavy loads to the top of buildings at the construction site.
- \_\_\_\_\_
- ii. Used to move objects easier on sloping surface.
- \_\_\_\_\_
- iii. Used by a tailor for cutting cloth and other materials.
- \_\_\_\_\_
- b) Draw a diagram of a spade and show the position of load, effort and pivot.

7. a) Outline three (3) sub - stations of electricity found in Zanzibar.
- i. \_\_\_\_\_
  - ii. \_\_\_\_\_
  - iii. \_\_\_\_\_
- b) Identify two (2) possible sources of electricity in Zanzibar.
- i. \_\_\_\_\_
  - ii. \_\_\_\_\_
8. a) What are the three (3) requirements needed for fish keeping.
- i. \_\_\_\_\_
  - ii. \_\_\_\_\_
  - iii. \_\_\_\_\_
- b) Point out two (2) importance of fish keeping.
- i. \_\_\_\_\_
  - ii. \_\_\_\_\_
9. The following steps help to search information by using search engine.  
Re - write these steps in sequential order.
- a. Click on the search button or press the ENTER key.
  - b. Type the URL of the search engine (Example www.yahoo.com) on the address bar.
  - c. Double click on any Web Browser icon.
  - d. Click any link to get the desired information.
  - e. Type the desired keyword in the search bar (Example; Science and technology).
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

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10. Write the long form of the following abbreviations.

- i. AIDS: \_\_\_\_\_
- ii. HIV: \_\_\_\_\_
- iii. PLWHA: \_\_\_\_\_  
\_\_\_\_\_
- iv. VCT: \_\_\_\_\_
- v. ARVs: \_\_\_\_\_

11. a) Define the following terms.

- i. Adolescence  
\_\_\_\_\_  
\_\_\_\_\_
- ii. Puberty  
\_\_\_\_\_  
\_\_\_\_\_

b) A twelve years girl does not understand about the secondary sexual characteristics that occurs during puberty. List three (3) changes that she will face at that age.

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



**SECTION C: (30 Marks)**

**Answer THREE (3) questions in this section.**

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

12. a) Soil is an important resource in human life. By using four (4) points, briefly explain the importance of conserving that resource.

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- b) Mention two (2) methods of soil conservation.

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13. a) Title bar and status bar are examples of common features on MS excel application. Explain the importance of each feature.

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- b. Use the worksheet of MS excel given below and answer the question that follows.

	A	B	C	D
1				
2				
3				
4				
5				

- Draw a straight line in row 4
- Draw a straight line in column C
- Write "X" in cell B2

14. a) Briefly explain the term electric hazard.

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- b) Figure 2 Shows the overloaded circuit connected to different appliances in the house. Observe it carefully and answer the questions that follow.



- i. Predict three (3) possible effects of electric hazards that may be caused by that circuit.

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- c. Describe three (3) precautions that must be taken to prevent electrical hazards in a house that uses such kind of circuit.

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15. a) Define the following terms.

- i. Water pollution

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- ii. Water pollutant

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- b) Standard seven pupils have a habit of throwing plastic bottles and spilling oil in the river. Describe four (4) effects that may occur due to that pupils' habit.

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16. a) Write the names of aquatic animals that have the following characteristics:

i. Have scales, fins, and gills used to obtain oxygen from water.

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ii. Live in fresh water, obtain oxygen through the gills, skin, and lungs.

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iii. Live in sea - water and have eight long arms.

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iv. Live in sea - water and have a star-like shape.

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- b) Briefly explain three (3) disadvantages of aquatic animals.

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Candidate's Examination Number \_\_\_\_\_

[illegible]





