

*Pupil's Assessment Number:.....*

**THE UNITED REPUBLIC OF TANZANIA**  
**THE NATIONAL EXAMINATIONAL COUNCIL OF TANZANIA**  
**STANDARD FOUR NATIONAL ASSESSMENT**

**05E SCIENCE AND TECHNOLOGY**

**Time: 1:30 Hours**

**Thursday, 26<sup>th</sup> October 2023 a.m**

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**Instructions**

1. This paper consists of two sections A, and B with **five (05)** questions.
2. Answer **all** questions.

<b>FOR ASSESSOR'S USE ONLY</b>		
<b>QUESTION NUMBER</b>	<b>SCORE</b>	<b>ASSESSOR'S INITIALS</b>
<b>1</b>		
<b>2</b>		
<b>3</b>		
<b>4</b>		
<b>5</b>		
<b>TOTAL</b>		
<b>CHECKER'S INITIALS</b>		

**SECTION A: MULTIPLE CHOICE AND MATCHING ITEMS**

1. Choose the correct answer and write its letter in the box provided:

i) Which list contains dangerous animals to human?

- A. Bee and snake
- B. Butterfly and lizard
- C. Cockroach and grasshopper
- D. Butterfly and bee

ii) When you look at the mirror you will see your image. Which event causes the particular image to occur?

- A. Refraction of light
- B. Absorption of light
- C. Formation of light
- D. Reflection of light

iii) Sikudhani was boiling water in an electric jug. After 30 minutes it all boiled and dried. Which change in states of matter occurred?

- A. Liquid to gas
- B. Gas to solid
- C. Solid to liquid
- D. Gas to liquid

iv) For the plant to grow it needs water, solar energy and moderate temperature. What other requirement is needed?

- A. Shadow
- B. Wind
- C. Soil
- D. Air

v) Light energy originated from natural and artificial sources. Identify one natural source?

- A. Candle
- B. Electricity
- C. The sun
- D. Lamp.



2. Answer items (i) - (v) by matching the functions of the human digestive system in **List A** with the corresponding part in **List B**. Write the letter of the correct answer in the bracket provided

No.	List A	Answer	List B
(i)	Produce an acid that killsgerms in the food and helps in digestion of food	[    ]	A. Stomach B. Mouth C. Oesophagus
(ii)	Store food temporarily	[    ]	D. Large intestine E. Rectum
(iii)	Absorbs water and mineral salts	[    ]	F. Liver
(iv)	Carries soften food to the stomach	[    ]	G. Stomach wall
(v)	Stores food residue	[    ]	

3. Answer items (a) - (e) by choosing the correct disease from the box and write it in the space provided.

Cancer, Schistosomiasis, AIDS, Chickenpox, Malaria, Cholera, Asthma
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**Questions:**

- a) Which disease is transmitted through the air or direct contact with an infected person? \_\_\_\_\_
- b) Which disease is transmitted by a housefly? \_\_\_\_\_
- c) Which disease is caused by plasmodium? \_\_\_\_\_
- d) Which disease is transmitted through worms from snails? \_\_\_\_\_
- e) Which disease is caused by abnormal growth of body cells? \_\_\_\_\_

4. Read the following passage and then answer items (a) - (e).

A group of three Standard Four pupils in Lokome primary school did an experiment to investigate seed germination in school environment. They did an experiment by sowing maize seeds in two different tins labelled “R” and “X”. In each tin, they put same type and amount of soil. The seed sown in tin “R” were watered and germinated after five days, while the seeds in tin “X” were not watered and there were no any seed germinated in this tin. The pupils asked their teacher the reasons for the seeds not to germinate. The teacher asked them to recall the steps for conducting scientific experiment. The steps are identification of the problem, formulation of hypothesis, conducting an experiment, collection of data, analysis of data, interpretation of data and making a conclusion.

**Questions:**

(a) What was the aim of the experiment conducted by pupils at Lokome primary school?

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(b) Name two things required in performing the experiment.

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

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

(c) Why the seeds in tin “X” did not germinate?

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(d) The act of pupils to ask for the reasons for the seeds not to germinate is similar to which step in science experiment? \_\_\_\_\_

(e) What have you learnt from the experiment in the passage you have read? \_\_\_\_\_

5. Observe the following pictures and answer the questions in items (a) - (e).

**Question**

(a) Identify activities observed in pictures **A** and **B**.

A: \_\_\_\_\_

B: \_\_\_\_\_

(b) Give the name of the tool used in pictures **A** and **B**.

A: \_\_\_\_\_

B: \_\_\_\_\_

(c) If the tool used in picture **A** is not available what part of the body can be used to perform the activity? \_\_\_\_\_

(d) What other tools can be used to perform activity in picture **A**?

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

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

(e) What is the scientific importance of using the tools shown in pictures **A** and **B**?

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