EXAMINATION NUMBER.....

MBEZIBWA THE GREAT ACADEMIC PLATFORM

MTGAP BRELA-REGI. NO. **613055.**

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MIPANGO STREET,DODOMA –TANZANIA

STANDARD VII-SPECIAL FOR SOUTHERN ZONE.

(LINDI, MTWARA AND RUVUMA)

SCIENCE AND TECHNOLOGY-04

Time: **1: 40** HRS Monday **21th** -APRIL, **2026.**

Instructions

1. This paper consists of sections A, B and C with a total of (8) questions.
2. Answer all questions in the spaces provided.
3. Section A and B carry twenty (**20**) marks each and section C carries ten(10 Marks)
4. All writings must be in black or blue pen, except drawing which must be in a pencil.
5. Communication devices and any unauthorized materials are not allowed in the examination room.
6. Write your Examination Number and all-important information at the top right corner of every page.

FOR EXAMINER'S USE ONLY		
QUESTION NUMBER	SCORE	EXAMINER'S INITIAL
1.		
2.		
3.		
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6.		
7.		
TOTAL		
CHECKER'S SIGNATURE		

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SECTION (30 MARKS)

1. Answer question (i) – (x) by choosing the letter of the correct answer and write it in the box provided

i. Mbezi hill village was struck by cholera after spread of flies which of the following gives in the life cycle of a housefly in the correct order. A. Larva ⟶ egg ⟶ pupa ⟶ imago
B. Egg ⟶ pupa ⟶ larva ⟶ imago C. Imago ⟶ larva ⟶ pupa ⟶ egg
D. Egg ⟶ larva ⟶ pupa ⟶ nymph E. Egg ⟶ larva ⟶ pupa ⟶ adult [ ]

ii. Insects have a tendency of discarding their old hard cuticle and produce new larger cuticle in order to grow in size. Which term explains this process? [ ]
(A)Pollination (B) Metamorphosis (C) Mouting (D) Growth (E) Reproduction

iii. Which blood component is shown by the diagram below?

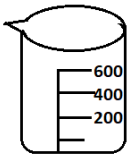


A.White blood cell C.Blood Plasma E.Plateletes
B. Red blood cells D.Hemoglobin [ ]

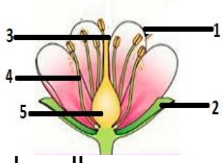
(A)Pollination (B) Metamorphosis (C) Mouting (D) Growth (E) Reproduction

iv. Aloe Vera and sisal are the plants that are founds in dry environment. How are they adopted to their environment? [ ]
(a) They shed out their leaves (B) They have thick leaves and waxy layer
(c) They have small leaves (D) They have tick sterm (E) They wilt their leaves

v. Our science teacher told us that its very important to study science lessons by using real tools. One day we entered in the laboratory and saw certain items. Our teacher asked us about the uses of item as seen in the diagram below but we failed to answer. As our fellow pupils what can you tell us about the uses of this instruments. [ ]
A. It measure mass of an object B. it measure weight of an object
C. it measure volume of liquid D. it measure gravitation force
E. it measure density of liquids



vi. In the figure below, what is the function of the part labelled number 1.



A. stick pollen grans B. Attract pollinators C. Sight of fertilization
D. Attach flower to the plant E. produce polles grains [ ]

vii. Sensory organs receive information and transmit them to the central nervous system what is the name of the nerves that carry information from the nose to the brain?
(a) Olfactory nerves (B) Auditory nerves (C) Optic nerves

(d) Cochlea (E) Taste buds [ ]

viii. Between the oesophagus and stomach there is a special muscle that prevent food in stomach from going back to the esophagus. How is it called?

(a) Colon (B) Throat (C) Duodenum (D) Rectum (E) Sphincter [ ]

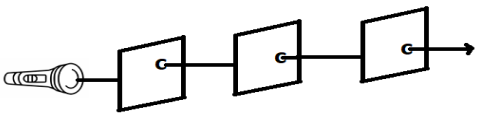
ix. Grade Seven pupils set an experiment as shown in the diagram below. What was the intention of them to conduct that experiment?

A. To show others how their good in performing experiment

B. to show the speed and rate of light on the air

C. To investigate that light travel in a straight line

D. To investigate that light can be reflected



E. to investigate that light can bend when it passes through different card board [ ]

x. Panga was emailed that,he won 80 millions of TATU MZUKA and was asked to send his account number quickly. However, he doesn't recall playing any lottery before. In which feature of his E-mail account will this suspicious message be kept?

A. Draft B. spam C. Address D. Inbox E. outbox [ ]

	LIST A	ANSWERS	LIST B
i	used in headlights and car headlights		A. convex lens
ii	used in supermarkets for security purposes		B. concave lens
iii	used in periscopes and produced many images of parts of shaving		C. flat glass
iv	it is used to make glasses for people who are blind		D. convex glass
v	it is used to make glasses for people who are nearsighted		E. glass is not available
			F. periscope
			G. microscope

2. Choose the answer from the box and answer items (i) – (v) carefully by writing it in the spaces provided.

Nitrogen	Magnet	Title	Ruler	Aim
Ohm's law	Measuring tape	Resistance	Carbon dioxide	

(i) The ratio between the voltage applied in an electric circuit to the current flowing through it is called? _____

(ii) Which device facilitates a dynamo to generate electricity? _____

(iii) During the production of electricity using biogas, which gas is filtered out of the digester to purify methane? _____

(iv) Which standard device do tailors use to measure lengths of clothes? _____

(v) Which name can be given to the objective of an investigation written in a scientific report? _____

SECTION B: (20 MARKS)

Answer all questions in this section

4.

i. Standard seven of Mtakuja primary school were conducting an investigation based on the growth rate of irrigated a amaranth and non- irrigated amaranth. A teacher told them to link the obtained result with the cause of the problem. At what stage does the result obtained is linked with the cause of the problem_____

ii. After conducting an experiment one is required to prepare and write the report of the experiment. What is the second step to consider _____

iii. Standard five were conducting experiment on how heat is transferred in different medium. They used water, heat and a pot; after few minutes water were moving up and down. Under which process does heat propagate in the liquid?_____

5.

i. Pupils at Mbande primary school were learning by using computer, a teacher told them to shutdown each computer after using. What is the first step to consider when shutting down the computer_____

ii. According to development of science and technology most of Tanzanian schools are using ICT technology in teaching and learning to share learning resources. How do we call the interconnected network that helps people to navigate in different websites?

_____

iii. An electric message which may contain text or other attachments sent from one computer to another is known as_____

6 .(i) Maliki was told to make a **YAGI-UDA** antenna by his teacher. What is the third step of making the antenna? _____

ii. Which type of antenna is used in devices like satellite, aeroplane and mobile phone?

_____

iii. Which type of antenna is used to receive weather forecasting information signals at the meteorological station? _____

iv. Why is aluminium used more than copper in fabricating antennas? _____

7 Study the following picture and then answer the following questions that follow;

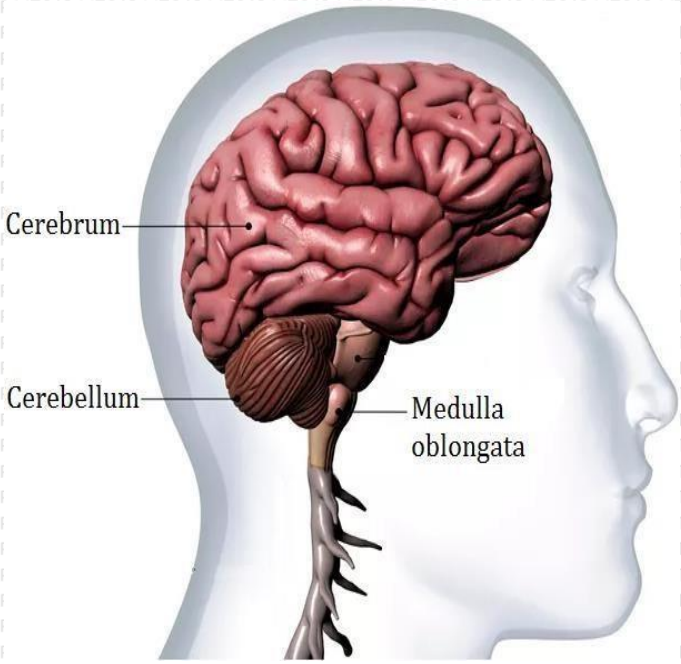


i. What is the function of the tool above? _____

ii. What is the name of the part labelled A? _____

iii. Which letter represent discharge hose? _____

8. **Observe the figure of human Brain below and answer the question that follow**



QUESTIONS

a Coordinates thinking, remembering, Learning decision making, and reasoning_____

b It controls the body posture and coordinates the body balance _____

c It controls all involuntary actions such as heart beat, contraction and relaxation of the blood vessels, breathing, and digestion of food and blood circulation_____

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