

**PROPER PREPARATION PREVENTS POOR PERFORMANCE (PENTA)
PENTA TANZANIA**



meshackstanley43@gmail.com

+255 764 760 769

KIHONDA- AZIMIO, MOROGORO

**FIRST STANDARD SEVEN ASSESSMENT
SCIENCE & TECHNOLOGY**

TIME: 1:00 HOURS

MARCH 2024

darasahuru.co.tz

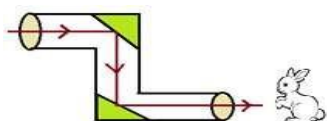
INSTRUCTIONS

- 🕒 This paper consists of 35 questions in section A, B & C.
- 🕒 Answer all questions correctly.
- 🕒 Observe neatness of your work.
- 🕒 Remember to write your name correctly.
- 🕒 Follow the instruction of each section and that of each question.
- 🕒 If you want to change your answer, you must cut once the original answer then write the new one.
- 🕒 Use blue or black ink ball pointed pen to answer all questions.
- 🕒 Cellular phones are not allowed in the examination room.

SECTION A:

Choose the correct answer from the given alternatives and write its letter in the space provided.

- i. Which of the following changes results into formation of a new substance?
A. Water becoming ice
B. Souring of milk
C. Separating iron fillings from sand by using a magnet.
D. Separating of salt from the salt
E. Water becoming Souring of milk vapour
- ii. Which one is the correct arrangement of matter from the strongest to the weakest molecular forces?
A. Solid, gas and liquid
B. Solid, liquid and gas
C. Liquid, solidi and gas
D. Liquid, gas and solid
E. Gases, liquid and solid
- iii. The electric technician installed electricity in five classrooms. When the electric bulb in one classroom got damage, the bulbs in the of rest classrooms also went off. Which kind of the circuit did the electrical technician install?
A. Vertical circuit
B. Zigzag circuit
C. Parallel circuit
D. Both parallel and series circuit
E. Series circuit
- iv. What is the function of an instrument show below?



- A. To observe tinny cells
B. To observe things that are far
C. To magnify the small objects
D. To observe things placed at the corner
E. To measure the length of an object
- v. How are the grid of columns and rows indicated by letters running across the top of workbook window called?
A. Excel
B. Toolbar
C. A new book
D. Worksheet
E. Cell
- vi. Which part of a seed stores food for germination?
A. Cotyledon
B. Embryo
C. Radicle
D. Plumule
E. Testa
- vii. In the digestive system, food started to be digested in the mouth to the small intestine. What kind of food begins to be digested in the mouth?
A. Protein
B. Mineral salts
C. Vitamin
D. Starch
E. Fats
- viii. Kiwewe touched an electric wire which was covered with a plastic and didn't get an electric shock. How do we call the materials that were used to cover the wire?
A. Insulator
B. Transparent
C. Opaque
D. Conductor
E. Translucent
- ix. Chale planted a plant inside his room near the window. After three months he observed that the plant was growing towards the window where there was light. What action was demonstrated in that experiment?
A. Photosynthesis
B. Transpiration
C. Phototropism
D. Geotropism
E. Osmosis
- x. Carbon dioxide + water + Sunlight $\xrightarrow{\text{Q}}$ Starch + oxygen. What does the letter Q represent?
A. Heat
B. Chlorophyll
C. Potassium
D. Nitrogen
E. Chlorate

1. Match the items of COLUMN A and those of COLUMN B to complete the items (i) to (v).

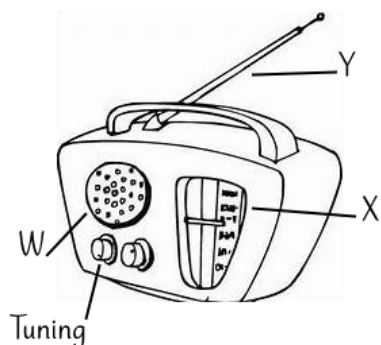
	COLUMN A	ANS	COLUMN B
i.	A part which displays pictures and texts in the television		A. Remote
ii.	A part which produces sound in the television so as to get a message		B. Buttons
iii.	A part used for commanding television at a distant		C. Switch
iv.	A part which picks up signals from the air		D. Wire
v.	A part which transfers electric power from the socket to the television		E. Speaker
			F. Antenna
			G. Screen

3. Answer the following questions by writing the correct answer;

- i. Which organ in the body is responsible for removing poison or toxic chemical produced by the body? _____ (Lungs, Liver, Kidney, Brain, Stomach)
- ii. Mboni decided not to bear other children after some years. She went to doctor and the doctor advised her to cut and tie the fallopian tube. Which word can express this statement?
_____ (Vasectomy, Surgery, Laparotomy, First aid, Circumcision)
- iii. Which part in the blood circulatory system does the dirty blood in the kidney pass through?
(Renal artery, Nephron, Renal vein, Veins, Bowman's capsule)
- iv. In the breathing system, exhalation helps to excrete carbon dioxide and what else? _____
(Excessive salt, Hydrogen, Excessive Water, Nitrogen, Rare gases)
- v. Which process among the following helps to remove carbon dioxide from the body?
_____ (Exhalation, Dancing, Inhalation, Nutrition, Relaxation)

SECTION B

4. Study the diagram below carefully and answer the questions that follow;



- i. The sound is produced by the part marked _____
- ii. The metre bank is indicated by the part marked _____
- iii. What is the function of the part marked Y? _____
- iv. Which part is used to increase or reduce the volume? _____

5. Answer the questions i - iii by writing the correct answers in the spaces provided;
- Teacher Bonge wanted to prepare the results of mathematics test for 150 pupils who sat for that test. Which computer program would you advise him to use in order to simplify that work? _____
 - Which process do plants use to absorb water molecules from the soil through roots to different parts? _____
 - Methane is among the gases that are found in a biogas. What are the other gases?
 - _____
 - _____

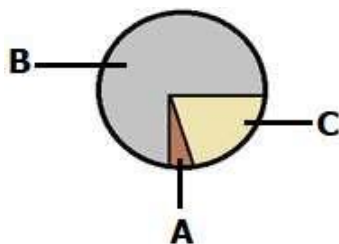
6. Answer the questions i - iv by writing the correct answers in the spaces provided;
- Which device is used to measure the voltage in an electric circuit? _____
 - What is the effect of not taking the required precautions to the safety sign shown below? _____



- Which computer key is used to capitalize the texts? _____
- When you look at the surface of stagnant water, you will see your face. Which characteristic of light does this action display? _____

SECTION C

7. The illustration below shows percentage composition of air. Use it to answer the questions i (a) and (b) and ii.



- Which gas is represented by letter C? _____
 - What is the percentage composition of the gas marked B? _____
- What are the two main groups of flowering plants?
 - _____
 - _____

8. Find the solution of the following questions;

- Calculate the velocity ratio of the second-class lever, if the effort distance is 200cm and the load distance is 40cm.
- What is the amount of current flowing through a wire of resistance 20 ohms if the voltage is 4 volts?
- Find the mechanical advantage of a system consisting of five pulleys, if an effort of 12 kilograms is used to lift 48 kilograms of a load.