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AUGUST, 2025
SCIENCE – 2 HRS
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Class



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AUGUST

2025

SCIENCE

2 HOURS

Do not open this booklet until you are told to do so. While you are waiting, read and observe the following instructions carefully. Write your name and index number in ink in the spaces provided above.

This booklet consists of two papers; I and II. Answer Paper 2 which comes first in your answer booklet and Paper 1 on your Objective Test answer sheet. Paper 2 will last for **1 hour 10 minutes**, after which the answer booklet will be collected. Do not start Paper 1 until you are told to do so. Paper 1 will last **50 minutes**.

VERY IMPORTANT INSTRUCTIONS TO YOU IF YOU WANT TO PASS THIS PAPER

1. Read the questions, brainstorm and plan your answers before you finally answer them. This is one of the good ways to manage your time in an exam and to do well.
2. Clearly use simple but detailed sentences and provide the best answers possible at all times.

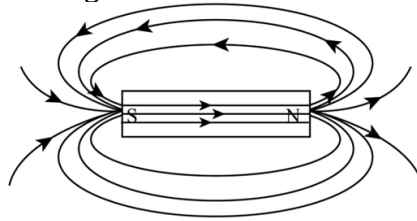
3. Write answers that provide additional information. If you just list answers or provide one to three worded answers where explanations are required, you will score very low marks or nothing at all.
4. Do well to explain your answers to help earn full marks and give one example if needed. Check your units of measurement, spellings, grammar, update answers and read over your work before submitting your script.
5. Write question numbers boldly, start every new major question (answers) on a new page.
6. Do not rewrite the full question before answering. Only write the question number that corresponded to the answer.
7. Show workings in all instances in section B if the question involves calculations.

SECTION B

Answer three questions from this section

1.
 - a.
 - i. Differentiate between a simple machine and a complex machine by stating **three** differences. (3 marks)
 - ii. Provide **two** examples each of a simple machine and a complex machine. (4 marks)
 - b. Describe briefly how sulfur can be separated from a mixture of powdered sulfur and iron filings. (5 marks)
 - c.
 - i. What is meant by the term seed beds? (2 marks)
 - ii. State the main types of seed beds used in crop cultivation. (3 marks)
 - d. Explain each **R** of the **3R** principle in sustainable waste management. (3 marks)
2.
 - a. An atom of element V has an atomic number of 17 and a mass number of 35.
 - i. How many protons, electrons, and neutrons are present in the atom? (3 marks)
 - ii. Using a labelled diagram, show the electronic configuration of the atom. Your diagram should include the positions of the protons and electrons, and the arrangement of electrons in the respective shells. (4 marks)
 - b.
 - i. List two human activities that interfere with the natural carbon cycle. (2 marks)
 - ii. State two environmental effects resulting from the disruption of the carbon cycle. (2 marks)
 - c. Explain briefly how a capacitor stores and releases electrical energy during the processes of charging and discharging. (3 marks)
 - d.
 - i. Identify three key differences between igneous rocks and sedimentary rocks. (3 marks)
 - ii. Briefly explain the process by which metamorphic rocks are formed. (3 marks)
3.
 - a. Provide reasons for the following agricultural practices:
 - i. Why is Centrosema often grown in oil palm plantations? (2 marks)
 - ii. Why is a farmland infected with witchweed usually replanted with peanut? (2 marks)
 - b.
 - i. In the context of soil science, how does soil texture differ from soil structure? (4 marks)
 - ii. Give two importance of soil structure. (2 marks)
 - c.
 - i. Identify two ways in which plants and animals rely on each other for survival. (2 marks)
 - ii. What are three disadvantages associated with organic farming? (3 marks)
 - d.
 - i. Describe briefly the process by which electricity is produced from a dam. (3 marks)
 - ii. What forms of energy transformation occur during the generation of hydroelectric power? (2 marks)

4. a. i. What are three distinct properties of magnetic lines of force observed around a bar magnet? (3 marks)



- ii. How would you define a magnetic field in simple scientific terms? (2 marks)
- b. i. What is meant by the term "electronic configuration"? (2 marks)
- ii. List three notable characteristics of elements found in Group 7 of the periodic table. (3 marks)
- c. i. In what three physical forms can roughages be processed and provided to animals? (3 marks)
- ii. Identify two macro minerals that animals require in large amounts for proper development. (2 marks)

- d. i. Copy and complete the table below with the appropriate information. (3 marks)

Lack of	Deficiency disease
Vitamin C	
Vitamin D	
Vitamin A	

- ii. Mention two key functions of fats in the human body. (2 marks)