



education
MPUMALANGA PROVINCE
REPUBLIC OF SOUTH AFRICA

GENERAL
EDUCATION AND TRAINING

GRADE 9

NATURAL SCIENCES
TERM 3
2024
Baseline Assessment

Marks: 30

Time : 40 minutes

This question paper consists of 5 pages

Copyright reserved

Please turn over

INSTRUCTIONS

1. This question paper consists of **5 pages** including the cover page.
2. Answer **ALL** the questions.
3. Number the answers correctly following the numbering system used in this question paper.
4. Write neatly and legibly.

QUESTION 1

Four options are given for each question but only **ONE** is correct. Choose the correct answer by **ONLY** writing the letter; **A, B, C** or **D** next to the number of the question; e.g.

1.7 C

1.1 The flow of electric charge is known as ...

- A electric current
- B voltage
- C resistance
- D power

(2)

1.2 Which of the following materials is **NOT** a conductor of electricity?

- A Iron
- B Copper
- C Glass
- D Aluminium

(2)

1.3 In a simple electrical circuit, the bulb lights up when you close the switch because...

- A the switch produces energy.
- B closing the switch completes the circuit.
- C there is energy in the light bulb.
- D the bulb is a resistor.

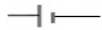
(2)

1.4 What is the force that acts between two objects with the same charge?

- A Attractive
- B Weak
- C Zero
- D Repulsive

(2)

1.5 Which of the following symbols represents a cell?

- A 
- B 
- C 
- D 

(2)

1.6 Which energy source is **NOT** renewable?

- A Wind power
- B Hydro power
- C Coal power
- D Solar power

(2)

(12)

QUESTION 2

Match the statements in **COLUMN A** with the terms in **COLUMN B**. Write only the letter of the correct term next to the question number, e.g. 2.5 G

COLUMN A	COLUMN B
2.1 A material that does not allow electricity to pass through it.	A. Output device
2.2 A thin wire used in electric circuits which melts when there is excessive current supply	B. Renewable energy source
2.3 A component in an electrical circuit that changes electrical energy into useful forms of energy.	C. Insulator
2.4 Energy source that can be used up.	D. Fossil fuels
2.5 The remains of dead plants and animals that store energy from millions of years ago.	E. Non-renewable energy source
	F. Fuse

(5)

QUESTION 3

3.1 Study the diagrams below and answer the questions that follow.

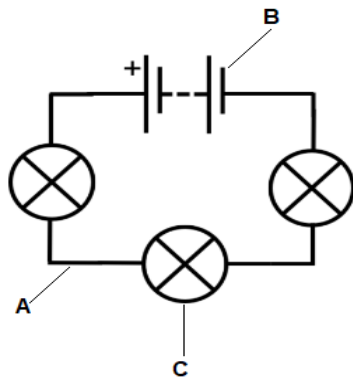


Diagram 1

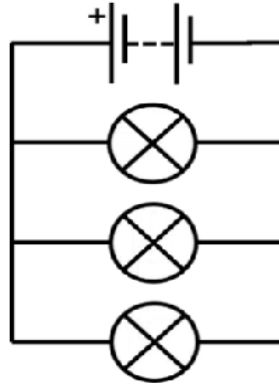


Diagram 2

3.1.1 Which components do the letter **A**, **B**, and **C** represent in diagram 1? (3)

3.1.2 How are the bulbs connected in:

3.1.2.1 Diagram 1? (1)

3.1.2.2 Diagram 2? (1)

3.2 Why are insulators important? (2)

3.3 What is the unit of electrical power? (2)

3.4 What is the purpose of using energy-efficient appliances? (2)

3.5 Give **TWO** ways to reduce the cost of electricity. (2)

(13)

TOTAL: 30