



KWAZULU-NATAL PROVINCE

EDUCATION
REPUBLIC OF SOUTH AFRICA

**GENERAL EDUCATION AND
TRAINING**

GRADE 5

NATURAL SCIENCES AND TECHNOLOGY

PLC FINAL TEST

2025

Marks: 40

Time: 70 Minutes

Instructions and Information

1. You must **answer all the questions**.
2. Read the instructions carefully, and answer questions as instructed.
3. Number your answers exactly as the questions are numbered.
4. For Question 4.1 a graph sheet is provided. Submit the graph sheet together with your answer sheet.
5. Write neatly and legibly.

NB. This question paper consists of **4 pages** and contains **7 questions**.

Question 1

Various options are provided as possible answers to the following questions. Choose the most correct answer and **write only the letter next to the question number** e.g. **1.1 D**

1.1 What is the useful output energy obtained when wood is burning?



- A. light
- B. heat and light
- C. sound
- D. motion (1)

1.2 Where is electricity generated?

- A. substation
- B. fuel station
- C. power station
- D. homes and buildings (1)

1.3 How can energy be stored in an elastic band? By ...

- A. rolling it
- B. stretching it
- C. folding it
- D. compressing it (1)

1.4 The picture shows a wind-up toy duck. What is the source of energy that makes the toy duck to move?



toy duck

- A. stretched elastic band
- B. the battery inside the duck
- C. the compressed spring
- D. food (1)

1.5 How many days does the Earth take to travel around the Sun?

- A. 28
- B. 30
- C. 288
- D. 365 (1)

1.6 Which type of soil is a good mixture of clay, sand and other soil grains?

- A. sandy soil
- B. clay soil
- C. loamy soil
- D. top soil

(1)

[6]

Question 2

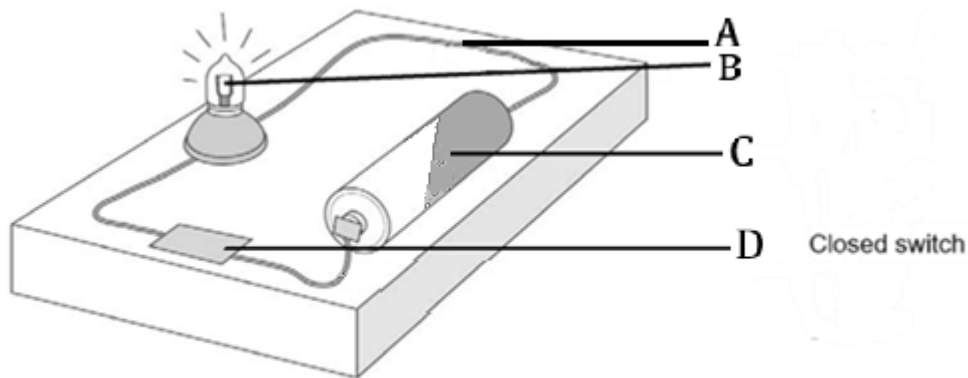
Match the description in column A with the correct term, in column B

	COLUMN A	COLUMN B	
2.1	Substance that can be eaten or burned to produce energy.	A. orbit	(1)
2.2	A group of two or more cells that are connected together.	B. crust	(1)
2.3	A system that allows electrical energy to move.	C. fuel	(1)
2.4	To move around a central point or object in a curved path	D. conductor	(1)
2.5	The hard, rocky layer of Earth's surface.	E. electric circuit	(1)
		F. battery	

[5]

Question 3

Study the following diagram of a simple circuit and answer the questions.



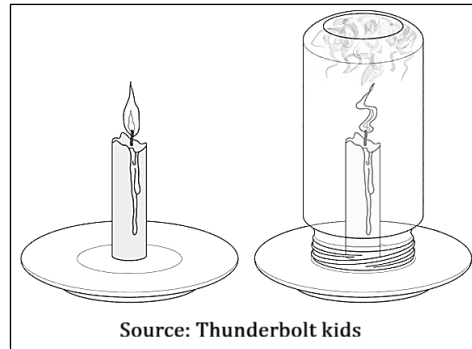
Source: Thunderbolt kids

- 3.1 Write the name of the component marked A. (1)
- 3.2 Write the name **and** symbol of the component marked C. (2)
- 3.3 Write the symbol for the component marked D. (1)
- 3.4 Briefly explain the energy transfer that occurs at point B. (2)
- 3.5 What is the function of a cell or a battery in a circuit? (1)

[7]

Question 4

Grade 5 learners were investigating how long a candle would burn for when covered with different sized glass jars or containers. Their hypothesis was that all the candles will go off at the same time. They conducted the experiment and recorded the time it took the candle to go out in each glass jar.



Their results were as follows.

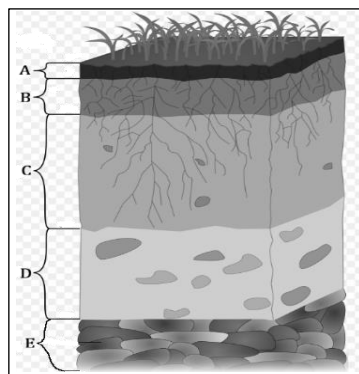
Size of glass jar	Time taken for candle to go out (seconds)
Small	10
Medium	19
Large	28

- 4.1 Use the information in the table to draw and label a bar graph on the graph paper that has been provided. (6)
- 4.2 In which glass jar did the candle burn the longest? (1)
- 4.3 What was the fuel supply that made the candle to burn? (1)
- 4.4 Explain briefly why there was a difference in the time it took for the candle to go out? (2)

[10]

Question 5

Look at the picture showing different layers of the soil and answer the questions.

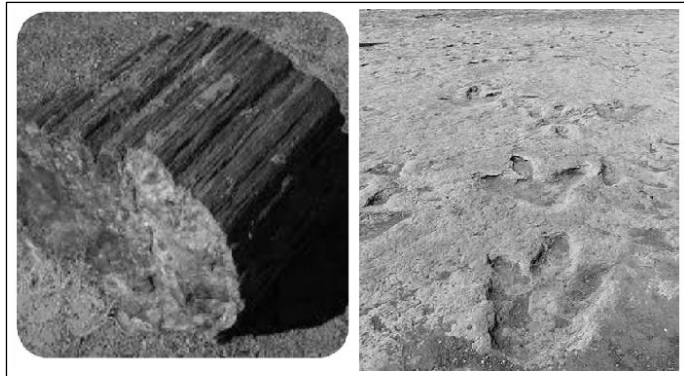


- 5.1 Provide labels for the parts (A, B, and C) shown in the picture, by choosing from the words given.
(Topsoil, Subsoil, Organic layer, Bedrocks) (3)
- 5.2 What happen to the topsoil if it is exposed? (1)

[4]

Question 6

Look at the pictures showing different types of fossils and answer the questions.

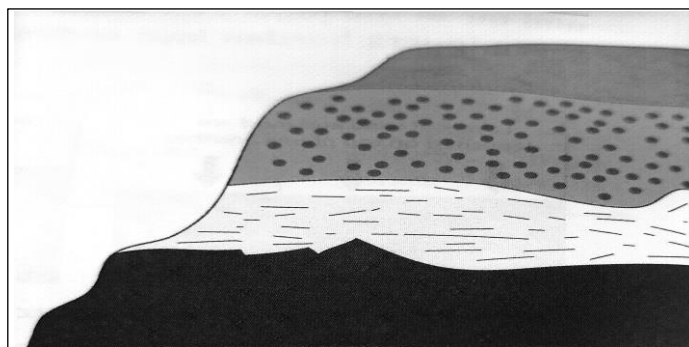


- 6.1 What type of fossil does fossil wood represent? (1)
- 6.2 Explain briefly why fossil wood does not burn. (1)
- 6.3 What is the difference between body fossils and trace fossils? (2)

[4]

Question 7

Look at the picture of the sedimentary rocks and answer the questions.



- 7.1 Which layer is the oldest? (1)
- 7.2 Mention one importance of a limestone as an example of a sedimentary rock to farmers in Agriculture? (1)
- 7.3 How are sedimentary rocks formed? (2)

[4]

Total Marks: 40

NAME: _____

Question 4.1

