BURARI PUBLIC SCHOOL

... a venture with UNIQUE

PERIODIC TEST-II (2026-27)
CLASS – VII
SUBJECT - SCIENCE **Date_____**

M.M:40

NAME: _____ ROLL NO - _____ T. SIGN _____

GENERAL INSTRUCTIONS:

- All questions are compulsory.
- Handwriting should be neat and clean.
- This Question paper is divided into four sections - A, B, C, and D
- **Section A** Question No. 1 to 10 are multiple choice type questions and Assertion Reason based. Each question carries 1 mark.
- **Section B**-Question No. 2 are very short answer type questions. Each carry 2 marks.
- **Section C**-Question No. 3 are long answer type questions. Each carry 3 marks.
- **Section D** Question No. 4 is case based question of 5 marks.

NOTE:
As per the guidelines of the New Education Policy (NEP), this holiday homework assessment will be conducted as an Open Book Assessment. Students are encouraged to refer to their textbooks, notebooks, and other learning resources while completing the assignment. The focus of this assessment is on understanding, application, and expression of ideas rather than rote learning. Students are advised to maintain honesty and originality in their work.

SECTION- A (1 × 10 = 10 Marks)

Q-1 Tick (✓) the correct option:-

1. Which of the following is an acid?

A) Soap solution

B) Lemon juice

C) Baking soda

D) Toothpaste

2. Which substance turns red litmus paper blue?

A) Acid

B) Base

C) Neutral solution

D) Salt

3. Which of the following is a neutral substance?

A) Vinegar

B) Milk

C) Distilled water

D) Lemon juice

4. Turmeric is used as a natural indicator. It turns red in the presence of:

A) Acid

B) Base

C) Neutral solution

D) Salt

5. Which material is a good conductor of electricity?

A) Plastic

B) Rubber

C) Copper

D) Wood

6. The flow of electric current in a circuit requires:

A) Open circuit

B) Closed circuit

C) Broken wire

D) Switch off

7. Which device is used to control the flow of electricity in a circuit?

A) Battery

B) Bulb

C) Switch

D) Wire

8. What happens when the circuit is open?

A) Current flows

B) Bulb glows

C) No current flows

D) Battery gets charged

Given below are two statements as Assertion (A) and Reason (R). Read the Assertion and Reason and choose the appropriate answer.

9. Assertion: The bulb glows when the switch is turned ON**.**
Reason: Electric current flow only in a closed circuit**.**

10. Assertion: Blue litmus paper turns red when dipped in lemon juice.
Reason: lemon juice is an acidic substance**.**

1.Both A and R are true and R is the correct explanation of A.
2.Both A and R are true, but R is not correct explanation of A.
3.A is true but R is false.
4. A is false but R is true.

SECTION-B (2 × 5 = 10 Marks)

Q-2 Answer the following questions in brief :-

1. What is an electric circuit ?Draw and label a simple electric circuit with a cell,bulb,and switch.
2. What is the difference between an open circuit and a closed circuit?
3.What is an electric cell ?Name its two terminals.
4. Picture-Based Questions

Observe the given picture and answer the following questions:
a. How is baking soda helpful when applied to an ant sting?
b. What type of reaction is shown here?

5.What is a conductor ?Give two example of materials that are good conductors of electricity.

SECTION-C (3× 5 = 15 Marks)

Q-3 Answer the following questions in details:-

1. What is the role of battery in a electric circuit? What will happen if the battery is removed.

2. List and explain three real life uses of neutralization reactions.
3. Draw two circuits—one in which the bulb glows and one in which it does not glow. Explain the reason with the help of diagram".
4.What is neutralization reaction?
5.Differentiate between conductors and insulators .Give at least two example of each.

SECTION-D (1 × 5 = 5 Marks)

Q-4 Read the case study carefully and answer the following question are given below:-

Riya was doing her science homework on electricity. She made a simple electric circuit using a cell, wires, a bulb, and a switch. When she closed the switch, the bulb started glowing. Her brother Aman accidentally opened the switch, and the bulb went off. Later, Riya tried placing a plastic scale in the circuit instead of a metal wire, but the bulb did not glow. She then replaced it with a metal spoon, and the bulb glowed again.

Answer the following questions:

1. What is an electric circuit? (1 mark)
2. Why did the bulb glow when the switch was closed? (1 mark)
3. What happened when Aman opened the switch? Why? (1 mark)
4. Why did the bulb not glow when a plastic scale was used? (1 mark)
5. What conclusion can you draw about materials like plastic and metal from this activity? (1 mark)