



BURARI PUBLIC SCHOOL

a venture with **UNIQUE**

PT- IV ASSIGNMENT (2024-25)

CLASS: VIII

SUBJECT- SCIENCE Date / /

Time: 1 Hr.

M.M. 20

Name: Roll No..... T. sign.....

Instructions:

- This paper consists of 4 sections A, B, C & D.
- All questions are compulsory.

SECTION-A

1) Choose the most appropriate answer:

4x1/2=2

1. Lightning conductor is installed on?

- (a) Tall buildings
- (b) A bungalow
- (c) Red lights
- (d) Hut

2. Lightning strike can cause

- (a) Damage to eyes
- (b) Earthquake
- (c) Fires
- (d) Both (a) and (c)

3. Which of the following cannot be charged easily by friction?

- (a) Copper rod
- (b) Plastic scale
- (c) Woolen cloth
- (d) An inflated balloon

4. A place where an earthquake originates is called

- (a) Epicenter
- (b) Focus
- (c) Fault
- (d) None of these

2) Give answer in one word for the following questions: (Do any 2)

4x1/2=2

- a. Waves that are generated inside the Earth's crust due to an earthquake.
- b. A crack running through the tectonic plates as a result of their movement.
- c. The scale on which the magnitude of an earthquake is measured.

SECTION-B

3) Answer the following in brief: (Do any 2)

2x2=4

- a. Define Thunder.
- b. What are the three ways of transferring charge from a charged body to an uncharged body?
- c. Name the instrument used to detect and measure charge.

4) Case study:**3x1=3**

While walking on a carpet, Raj touched the doorknob and experienced a small shock. His classmate, Simran, laughed and explained that it was due to static electricity. Raj didn't understand how he could be shocked just by touching the knob, so Simran decided to explain it to him using what she had learned in Science class.

A. What causes the small shock when Raj touched the doorknob?

- a) Magnetism
- b) Static electricity
- c) Gravitational force

B. How can you reduce the chances of getting a shock from static electricity?**C. Static electricity is produced when objects like carpets and metal interact. (True/False)****SECTION-C****5) Distinguish between:****1x2=2**

- a. Lightning and Thunder

6) Assertion-Reason based questions:**2x1=2**

The question consists of two statements as Assertion (**A**) and Reason (**R**). While answering the question, you are required to choose any one of the four choices:

- i. Both A and R are correct and R is the **correct** explanation of A.
- ii. Both A and R are correct and R is the **incorrect** explanation of A.
- iii. A is **correct** but R is **incorrect**.
- iv. Both A and R are **incorrect**.

1. Assertion (A): Lightning strikes tall buildings.**Reason (R):** A lightning conductor is installed on top of a single-storey house.**SECTION-D****7) Answer the following in detail: (Do any 2)****2x1=2**

- a. What causes the sound of thunder in the sky?
- b. On what factors does the damage caused by an earthquake depends?

8) Explain the working of the gold leaf electroscope. Support your answer with a well- labelled diagram.**3x1=3**