

DELHI PUBLIC SCHOOL JAMMU

SESSION 2024-25

MONTH : DECEMBER

ASSIGNMENT V

CLASS : VIII

SUBJECT: SCIENCE

TOPIC : SOME NATURAL PHENOMENA

Q1. Which of the following processes is responsible for producing streaks of bright light and sound during lightning?

- a) meeting of positive charges.
- b) meeting of negative charges.
- c) meeting of electric charges.
- d) meeting of opposite electric charges.

Q2. Assertion (A): A loud sound is produced during lightning.

Reason (R): Due to the heat produced at the time of lightning, the air gets heated up and expands suddenly

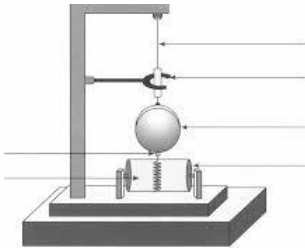
- a) Both A and R are true, and R is the correct explanation of A.
- b) Both A and R are true, but R is not the correct explanation of A.
- c) A is true, but R is false.
- d) A is false, but R is true.

Q3. What are the harmful effects of lightning?

Q4. a) Define : by a) Focal depth. b) Epicentre
c) Write two indoor safety measures during an earthquake.

Q5.List two differences between charging by conduction and charging by induction.

Q6. Observe the diagram and label all its parts



Q7. Read the following paragraph and answer the questions that follows:

Volcanic eruptions are one of the most powerful and catastrophic natural phenomena that occur on Earth. These eruptions happen when molten rock, ash, and gas escape from a volcano. When a volcano erupts, it can cause widespread destruction and affect the environment and population. The explosion of a volcano releases huge amounts of ash, rocks, and hot gases into the atmosphere. This can cause large-scale disruptions to travel, agriculture, and even lead to the loss of life. Furthermore, volcanic eruptions can also affect the global climate, as the gases released can cause significant cooling. Volcanic eruptions are often unpredictable, and scientists monitor them closely to try to minimize the impact on human life and the environment.

- 1) What are volcanic eruptions?
- 2) How do volcanic eruptions affect the environment and climate?
- 3) How do these eruptions happen?

Q8. What causes lightning and thunder?