

WORK SHEET
SUBJECT- Science

Chapter -10: Electricity & Lightning

CLASS- VIII

I Fill in the blanks:-

1. A property of matter, called ----- gives rise to electricity.
2. Particles that carry negative charge is called _____ .

II Choose the correct options:-

- 1 A nonmetal which is not an insulator
a) Carbon b) Sulphur c) Oxygen d) None
2. Which property is used while testing for charge:-
 - a) Attraction
 - b) Repulsion
 - c) Attraction as well as repulsion
 - d) Neither attraction nor repulsion

III Name the following :-

- 1 The flow of charge through air or gas.
- 2 Charging objects by bringing them near a charged body .
- 3 Rubbing body against each other to acquire an equal and opposite charge.

IV Define the following:-

- 1 Earthing.
2. Conduction
3. Electrostatic Force

V Draw neat and labelled diagram.

1. Lightning strike and conductor.
2. Charging by induction and charging by conduction.

VI Give Reasons

1. A piece of Styrofoam gets charged when it is rubbed with a piece of paper.
2. The leaves of gold leaf electroscope diverge when a charged body is brought in contact with its disc.

VII Answer in 20 words:-

- 1 What happens when someone rubs glass rod with a piece of silk and is brought near a negatively charged paper cylinder.
- 2 What would you expect when a plastic ruler is rubbed with a woollen cloth.

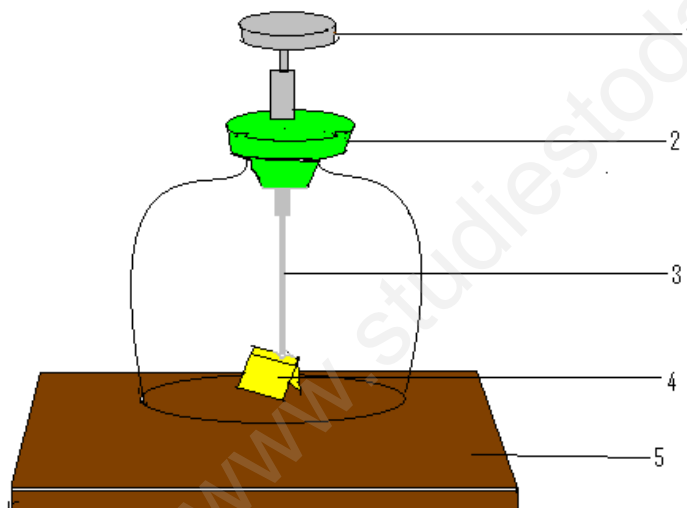
VIII Answer in 40 words:-

- 1 When a charged rod is moved towards an uncharged paper cylinder suspended by a string, the cylinder gets attracted to the rod initially and then moves away with a jerk .Explain why?
- 2 What are Lightning Conductors?

IX Answer in 100 words:-

- 1 How does lightning occur?
- 2 How would you use an electroscope to determine the nature of the charge (positive or negative) on a body?

X Label the following parts and answer the following questions:-



- 1 What is the use of Gold Leaf Electroscope?
- 2 Can any other metal be used in place of gold? If yes, Name any two metals.
