

St. Andrews Scots Sr. Sec. School
9th Avenue, I.P. Extension, Patparganj, Delhi – 110092
Session: 2024 – 2025
(Worksheet-12)

Class: VIII

Subject: Science

Chapter: Some Natural Phenomenon

Q.1. Define:

- a) Lightning conductor
- b) Static Electricity
- c) Seismic Zones

Q.2. Fill in the blanks:

- a) Lightning is an _____ on a huge scale.
- b) The crust and mantle is broken into pieces known as _____.
- c) Lightning is always followed by _____.
- d) Richter scale measure _____ of earthquake.
- e) Benjamin Franklin showed lightning in _____.

Q.3. Multiple Choice Questions:

- a) If two charged objects are brought close to each other then
 - (i) they will attract each other.
 - (ii) they will repel each other.
 - (iii) they may attract or repel depending on the charges they carry.
- b) During lightning air is normally
 - (i) a good conductor
 - (ii) a bad conductor
 - (iii) both (a) and (b)
- c) The epicentre of an earthquake is
 - (i) in the core of earth
 - (ii) on the surface of earth
 - (iii) in the middle of earth
- d) The process of transfer of charges from a charged object to the earth is called
 - (i) lightning
 - (ii) oscillation
 - (iii) earthing

Q.4. State whether the following statement is true or false.

- a) We can predict an earthquake.
- b) A device used to protect tall buildings from lightning is called metal detector.
- c) Any conductor can be used to make a lightning conductor.
- d) The electric charges produced by rubbing are called static charges.
- e) The plates of the outermost layer of the earth are always in continuous motion.

Q.5. Short Questions Answers:

- a) If air and cloud were good conductors of electricity, do you think lightning could occur?
- b) What is earthing? What is the application of earthing?

- c) What is static charge? How does it differ from electric current?
- d) The weather department has predicted that a thunderstorm is likely to occur on a certain day. Suppose you have to go out on that day. Would you carry an umbrella? Explain.