

- 1. Assertion :** People struck by lightning receive a severe electrical shock and may be burnt.

Reason : Lightning carries very high voltage.
- 2. Assertion :** Lightning rods are conductors used to protect buildings and houses from lightning strikes.

Reason : Lightning rods conduct electric charge.
- 3. Assertion :** When both the strips of electroscope is charged with similar charge, they repel each other and become wide open.

Reason : Like charges always repel each other.
- 4. Assertion :** It is safer to stand under a tall tree during lightning.

Reason : Doing so will make you the target for lightning.
- 5. Assertion :** Lightning is caused by the accumulation of charges in clouds.

Reason : The process of meeting of negative and positive charges to release huge amount of energy is called electric discharge.

6. **Assertion** : It is not a safe option to carry umbrella at the time of thunder storm.
- Reason** : Taking umbrella will increase the risk of fall of lightning on the person.
7. **Assertion** : The areas fall between the boundaries of two plates are called seismic or fault zones.
- Reason** : Fault zones are earthquake free zones.
8. **Assertion** : Tsunami may cause severe earthquakes.
- Reason** : Earthquake may cause severe Tsunami.
9. **Assertion** : Core is the innermost layer of the earth.
- Reason** : Mantle is the outermost layer of the earth.
10. **Assertion** : Sometimes a crackling sound is heard while taking off sweater during winters.
- Reason** : The electric discharge takes place between body and sweater.