

- 1. Assertion :** Charges flow from higher potential to the lower potential.
Reason : Current flows mainly due to flow of electrons.
- 2. Assertion :** Parts of car and bicycle are made by iron with chromium coating.
Reason : Chromium does not corrode and resist scratches.
- 3. Assertion :** All liquids are good conductor of electricity.
Reason : Liquids conduct electricity, due to flow of ions.
- 4. Assertion :** When electric current pass through copper sulphate solution, it dissociates into copper and sulphate ions.
Reason : Copper is a good conductor of electricity.
- 5. Assertion :** Insulators do not allow flow of current through them.
Reason : Insulators have no free charge carrier.
- 6. Assertion :** Electric appliances with metallic body have three connections, whereas an electric bulb has two pin connection.
Reason : Three pin connections reduce heating of connecting wires.
- 7. Assertion :** A current carrying wire should be charged.

Reason : The current in a wire is due to flow of free electrons in a definite direction.

8. **Assertion** : The connecting wires are made of copper.

Reason : The electrical conductivity of copper is high.

9. **Assertion** : The conductivity of an electrolyte is very low as compared to a metal at room temperature.

Reason : The number density of free ions in electrolysis is much smaller compared to number density of free electrons in metals. Further, ions move much more slowly, being heavier.

10. **Assertion** : The anode of copper voltameter has to be copper only.

Reason : The equivalent amount of copper from anode has to be dissolved into the electrolyte preserve the concentration.