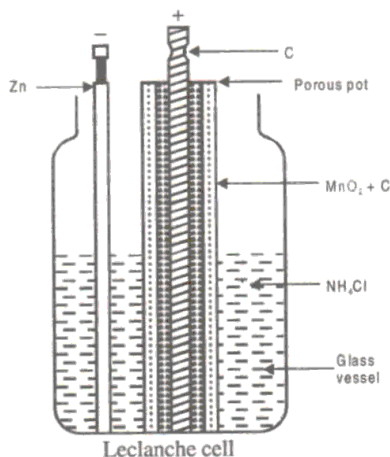


Answer 10

(a) Conductor B will lose charge. The reason is that there is greater concentration of electrons (since B is negatively charged) at its pointed ends.

(b)



It is not suitable for continuous use as MnO_2 being solid is a slow depolarizer. It does not oxidize hydrogen gas to water as fast as it is formed in the reaction. Therefore, if it is used for a long period, polarization starts after sometime due to deposition of excess of hydrogen on the anode which could not be converted into water. This is why, it is allowed to rest after using for sometime so that MnO_2 oxidizes the excess hydrogen to water

(c)

- i. Like poles repel and unlike poles attract each other.
- ii. The direction of the magnetic field at any point is the direction of force experienced by a north pole (hypothetical) placed at that point.
- iii. The middle region of a bar magnet is unmagnetized.
- iv. Iron, Steel, Nickel, Cobalt.