

**Copper is purified by electrolytic refining of blister copper. The correct statement(s) about this process is (are) –**

- A. Impure Cu strip is used as cathode**
- B. Acidified aqueous  $\text{CuSO}_4$  is used as an electrolyte**
- C. Pure Cu deposits at the cathode**
- D. Impurities settle as anode-mud**

**Solution: (B, C and D)**

**During purification of copper by electrolytic refining of blister copper,**

**(B) The electrolyte used is acidified aqueous copper sulphate solution. Hence, option (B) is correct.**

**(C) Pure Cu transfers from anode to cathode and deposits at the cathode. Hence, option (C) is correct.**

**(D) Impurities like Fe, Zn, Ni, Co etc. dissolve in the solution as sulphates and others like Au and Ag settle as anode-mud. Hence, option (D) is correct.**