

Electrometallurgy and Corrosion MCQ Questions and Answers Pdf

1. Pitting corrosion is
 - a. A uniform corrosion
 - b. A result of electrochemical reaction
 - c. A result of chemical reaction
 - d. Due to homogeneities in metalsAns: B
2. Which of the following acts as a cathodic areas in case of concentration/galvanic cells?
 - a. Stagnant solution
 - b. Dilute electrolyte
 - c. Deaerated solution
 - d. Metals high in emf seriesAns A
3. Corrosion of some metals can be prevented by its
 - a. Purification
 - b. Alloying
 - c. Painting
 - d. All a, b and cAns: D
4. Electrolytes conduct electric current by the movement of
 - a. Ions
 - b. Molecules
 - c. Electrons through them from cathode to anode
 - d. Electric charges through themAns: A
5. Stress corrosion occurs due to the presence of _____ stress.
 - a. Shear
 - b. Compressive
 - c. Tensile
 - d. Corrosive environment coupled with tensileAns: D
6. Rate of corrosion in metal is accelerated by the
 - a. Flow of alternating current through it
 - b. Applied or residual stresses in it
 - c. Decrease in its temperature
 - d. Reduction in current flow through itAns: B

7. Coating of iron with zinc protects it against corrosion, because
- Zinc is less noble than iron (in electrochemical series of metal)
 - Iron is less noble than zinc
 - Zinc has a higher melting point than iron
 - Iron has a higher melting point than iron

Ans: A

8. Dezincification is a form of corrosion applicable to
- Copper zinc alloys (e.g. brass)
 - Contact between metallic and non metallic surfaces (e.g. gasket)
 - Alkali attack in stresses metals
 - Two metals corrosion

Ans: A

9. Fretting corrosion is
- a purely chemical phenomenon
 - A purely mechanical phenomenon
 - Liable to occur, where close fitting machine parts are subjected to vibrational stresses
 - A uniform corrosion

Ans: C

10. Which is most prone to corrosive attack?
- Metal highest in the emf series
 - Metal lowest in the emf series
 - Metals with high level of impurities
 - Metals with slag inclusions

Ans: A