

Electrochemistry QUESTIONS

1) faraday constant-

- >Depends on equivalent
- >It as numerical constant
- >Depends on the number of electrons
- >Depends upon the current passed

Answer:

- >It as numerical constant
-

2) The conduction of electricity through the electrolyte solution is due to-

- >Movement of molecules of electrolyte
- >Movement of ions of electrolyte
- >Movement of separate atom
- >Movement of Particles of the solvent

Answer:

- >Movement of ions of electrolyte
-

3) During electrolysis, the species discharged at cathode are-

- >Cations
- >Anions
- >Ions
- >All of these

Answer:

- >Cations
-

4) The best conductor of electricity is a 0.1 M solution of -

- >Acetic acid
- >Boric acid
- >Propionic Acid
- >Sulphuric acid

Answer:

- >Sulphuric acid
-
-

5) Molten sodium chloride conducts electricity due to the presence of-

- >Free molecules
- >Free electrons
- >Free ions`
- >Atoms of sodium and chlorine

Answer:

- >Free ions`
-
-

6) The device which converts chemical energy of fuels directly into electrical energy is-

- >Concentration cell
- >Galvanic cell
- >Fuel cell
- >Both (b) and (c)

Answer:

- >Fuel cell
-
-

7) For which of the following cells, the standard cell voltage is zero-

- >Electrolytic cell
- >Concentration cell
- >Daniel cell
- >Fuel cell

Answer:

- >Concentration cell
-
-

8) A smuggler could not carry gold by depositing iron on the gold surface, because-

- >Gold has lower standard reduction potential than iron
- >Gold has higher standard reduction potential than iron
- >Iron rusts
- >Gold is denser

Answer:

- >Gold has higher standard reduction potential than iron
-
-

9) The electrochemical cell stops working after some time because-

- >Electrode potential of both the electrodes becomes zero
- >One of electrodes completely vanishes

- >Electrode potential of both electrodes equalizes
- >The reaction reverses its direction

Answer:

- >Electrode potential of both electrodes equalizes
-
-

10) To protect iron against corrosion. the durable metal plating on it, is-

- >Tin Plating
- >Copper plating
- >Zinc plating
- >Nickel plating

Answer:

- >Zinc plating
-
-

11) Iron rusts in the presence of -

- >Vacuum
- >Moisture
- >Oxygen
- >Both b and c

Answer:

- >Moisture
-
-

12) Which of the following metals is not attacked by the environment-

- >Gold
- >Copper
- >Silver
- >Iron

Answer:

- >Gold
-
-

13) the art of electroplating was given by-

- >Edison
- >Faraday
- >Thomas Grahan
- >Brugan

Answer:

- >Faraday
-
-

14) Corrosion is basically an-

- >Interaction
- >Union between two light metals and a heavy metal
- >Altered reaction in presence of H₂O
- >Electrochemical Phenomenon

Answer:

- >Electrochemical Phenomenon
-
-

15) Which of the following cell is a secondary cell-

- >Dry cell
- >Mercury cell
- >fuel Cell
- >Ni cell

Answer:

- >Ni cell
-
-

16) The source of electrical energy on the Appolo moon flights was-

- >A generator set
- >Fuel Cell
- >Ni-Cd- cell
- >Lead storage batteries

Answer:

- >Fuel Cell
-
-

17) When a lead storage battery is charged it acts as-

- >A primary cell
- >A galvanic cell
- >A concentration Cell
- >An Electrolytic cell

Answer:

- >An Electrolytic cell
-
-

18) Which of the following is moderate conductor of electricity-

- >Carborundum
- >Diamond
- >Graphite
- >Silica

Answer:
>Graphite

19) The element with the highest electrical conductivity is-

- >Aluminium
- >Copper
- >Gold
- >Silver

Answer:
>Silver

20) A conductivity cell is platinised-

- >To prolong its service
- >To avoid temperature effect
- >To avoid polarization effect
- >None of the above

Answer:
>To avoid polarization effect

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