

Class-XII
CHEMISTRY (043)
Chapter-3 (Electrochemistry)
ASSIGNMENT-4

(One mark)

1. Can we store AgCl aqueous solution in zinc pot?
2. Can an electrochemical cell act as electrolytic cell?
3. Which metal is used to make metallic foil for hydrogen electrode?
4. What is the value of electrode potential for SHE?
5. What name is given to the path which connects the solution of two half cells and complete the Cell circuit?
6. Will an electrochemical work if salt bridge is removed?
7. What is the value of cell potential at equilibrium?
8. Name the equation which gives relationship between electrode potential, concentration and Temperature of electrolytic solutions?
9. How does the conductivity of strong electrolyte changes on dilution?
10. What is the value of Faraday constant?

(Two mark)

11. How would you determine the standard electrode potential of the system Mg^{2+}/Mg ?
12. Why does the conductivity of solution decrease with dilution?
13. Define conductivity and molar conductivity for the solution of an electrolyte .Discuss their Variation with concentration.
14. The conductivity of 0.20M solution of KCl at 298K is 0.0248 S cm^{-1} Calculate its molar Conductivity.
15. State Kohlrausch law of independent migration of ions. Why does the conductivity of a Solution decrease with dilution?
16. What is the effect temperature on ionic conductance? Write the mathematical expression Kohlrausch, s law
17. Write the equation showing the relationship between equivalent or molar conductance and Concentration of strong electrolyte.
18. What is the effect of catalyst on: (i) Gibbs energy (ΔG) (ii) Activation energy of a Reaction?
19. Write the name of cell which is generally used in hearing aids. Write the reactions taking Place at the anode and the cathode of this cell?
20. Write the chemistry of recharging the lead storage battery, highlighting all the materials that are involved during recharging.

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