MODEL GUESS PAPER - 3

SR. CHEMISTRY

SECTION - A

I. Answer ALL questions : **[10 x 2 = 20]**

1. What is Osmotic pressure?
2. What is a Galvanic cell? Give one examples.
3. Write any two uses of argon.
4. What is the role of cryolite in the metallurgy of aluminium?
5. What happens when Cl_2 reacts with dry slaked lime?
6. What is Mischmetall? Give its composition and uses.
7. What is Zwitter ion? Give an example.
8. What are antiseptics? Give example.
9. What are antacids ? Give example.
10. How is Grignard reagent prepared?

SECTION - B

II. Answer any SIX of the following Questions : **[6 x 4 = 24]**

11. Define Molality. Calculate molality(m) of 10g of Glucose($C_6H_{12}O_6$) in 90 gm of water?
12. Describe the two main types of semiconductors and contrast their conduction mechanism.
13. What are Emulsions? How are they classified? Give one examples of each.
14. Explain the purification of sulphate ore by froth floattation method.
15. Using IUPAC norms write the systematic names of the following:
    a) $[C0(NH_3)_6]\ Cl_3$ b) $K_3[Fe(CN)_6]$ c) $K_2[Pd(Cl_4)]$ d) $[Ni(Co_4)]$
16. Write the names of the monomers used for getting the following polymers.
    (i) Nylon 6,6 (ii) Glyptal (iii) Bakelite (iv) Dacron
17. What are hormones? Give an example for each of the following:
    a) Steriod hormones b) Polypeptide hormones c) Amino acid derivates
18. Define (i) Reaction mixture (b) Enantiomers

SECTION - C

III. Answer any Two of the following Questions : **[2 x 8 = 16]**

19. (a) What are Galvanic cells? Explain the working of Galvanic cell with a neat sketch taking Daneil cell as 'example.
    (b) State Faraday's laws of electrolysis. A solution of CuSO4 is electrolyzed for 10 minutes with a current of 1.5 amperes. what is the mass of copper deposited at the cathode.
20. (a) How is ammonia manufactured by Haber's process?
    (b) How is ozone prepared?
    How does it react with (a) Hg (b) Pbs
21. Explain the following named reactions.
    (a) Reimer - Tiemann reaction (b) Decarboxylation (c) Cannizzaro reaction (d) Esterification

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