# **MODEL GUESS PAPER - 3**

## **SR. CHEMISTRY**

### SECTION - A

#### I. Answer ALL questions :

- 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<sub>2</sub> 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?

#### <u>SECTION - B</u>

#### II. Answer any SIX of the following Questions :

- 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 :

- 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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#### 12

[10 x 2 = 20]

[6 x 4 = 24]

[2 x 8 = 16]