MODEL GUESS PAPER - 1

SR. CHEMISTRY

SECTION - A

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

- 1. State Raoult's law.
- 2. Give Two example for gaseous Zero order reactions.
- 3. What is metallic corrosion? Give one example.
- 4. Mention the shape and draw a diagram of XeO₃.
- 5. What is a tailing of mercury? How is it removed?
- 6. What is Zn+ is diamagnetic whereas Mn+ is paramagnetic?
- 7. What is vulcanization of rubber?
- 8. What are antifertility drugs? Give example
- 9. What are ambident nucleophiles?
- 10. Write about carbylamine reaction.

SECTION - B

II. Answer any SIX of the following Questions : $[6 \times 4 = 24]$

11. Define Molarity.

Calculate the molarity of a solution containing 5g of NaOH in 450 ml of solution.

- 12. Derive Bragg's equation.
- 13. Define adsorption? Give any four difference between physisorption and Chemisorption
- 14. Define Calcination and roasting. Give one example of each.
- 15. Explain werner's theory of coodination compounds with suitable examples
- Name the sources and diseases caused by the deficiency of the vitamins
 - (a) A (b) D (c) E (d) K
- 17. What are artificall sweetening agents and food preservatives? give one examples of each.
- 18. Explain SN¹ and SN² reactions.

SECTION - C

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

- 19. Describe the salient features of the Collision theory of reaction rates of bimolecular reactions.
- 20. (a) Give chemical equations to manufacture of Sulphuric Acid by contact process.
 - (b) How is chlorine prepared in deacon's process? How does it react with the following?
 - (i) Cold and dilute NaOH (ii) Hot and concentrated NaOH
- 21. Explain the following with one example.
 - a) Williamson's Synthesis
- b) Kobe's reaction
- c) Gattermann reaction.
- d) Aldol condensation

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