

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 XeO_3 .
5. What is a tailing of mercury ? How is it removed?
6. What is Zn^{2+} is diamagnetic whereas Mn^{2+} 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 x 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 coordination compounds with suitable examples
16. Name the sources and diseases caused by the deficiency of the vitamins
(a) A (b) D (c) E (d) K
17. What are artificial sweetening agents and food preservatives ? give one examples of each.
18. Explain SN^1 and SN^2 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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