Class : 11

Register Number

SECOND MID TERM TEST - 2024

Time Allowed : 1.30 Hours|

CHEMISTRY

|Max. Marks : 50

PART - I

I. Choose the correct answer.   10x1=10

1. Sodium is stored in

 a) alcohol b) water c) kerosene d) none of these

2. Lithium shows diagonal relationship with

 a) sodium b) magnesium c) calcium d) aluminium

3. The product obtained as a result of a reaction of nitrogen with CaC_2 is

 a) $Ca(CN)_3$ b) CaN_2 c) $Ca(CN)_2$ d) Ca_3N_2

4. The molality of a solution containing 1.8g of glucose dissolved in 250g of water is

 a) 0.2 M b) 0.01 M c) 0.02 M d) 0.04 M

5. Normality of 1.25M sulphuric acid is

 a) 1.25 N b) 3.75 N c) 2.5 N d) 2.25 N

6. The Van't Hoff factor (i) for a dilute aqueous solution of the strong Electrolyte barium hydroxide is

 a) 0 b) 1 c) 2 d) 3

7. Which of the following is optically active

 a) 2 – methyl pentane b) Citric Acid c) Glycerol d) none of these

8. The general formula for cyclo alkanes

 a) C_nH_n b) C_nH_{2n} c) C_nH_{2n-2} d) C_nH_{2n+2}

9. Name of $C_2F_2Cl_2$ is --------

 a) Freon – 112 b) Freon – 113 c) Freon – 114 d) Freon – 115

10. The raw material for Rasching process

 a) Chlorobenzene b) phenol c) benzene d) anisole

PART - II

II. Answer any five questions. Q.No 18 is compulsory: 5x2=10

11. Why Gypsum is referred to as desert rose?

12. How is Bleaching powder prepared?

13. Define the term isotonic solution.

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14. State Raoult law.

15. What is Baeyer's Reagent?

16. How is DDT prepared?

17. Write Williamson's ether synthesis.

18. How can you prepare the following one?   Benzene $\rightarrow$ BHC

PART - III

III. **Answer any five questions. Q.No 26 is compulsory**　　　　5x3=15

19. Give the uses of Gypsum.

20. Discuss briefly the similarities between Beryllium and Aluminium.

21. Define Osmatic Pressure.

22. State Henry's law.

23. Explain Markow Nikoff's rule with suitable example.

24. Write Sandmeyer's reaction.

25. Write Carbylamine reaction.

26. Write Brich reduction.

PART - IV

IV. **Answer all the questions:**　　　　3x5=15

27. a) How is plaster of Paris prepared? Mention its uses (5)

(OR)

b) Describe briefly the biological importance of Calcium and magnesium (5)

28. a) **Define:**   1) Molality　　2) Molarity　　3) Mole fraction (5)

(OR)

b) What is relative lowering of vapour pressure? How will you determine the molar mass of solute from it? (5)

29. a) Discuss the structure of Benzene (5)

(OR)

b) Explain SN^2 mechanism.

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