



# CHEMISTRY

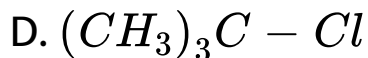
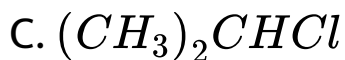
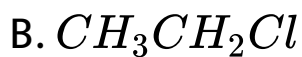
## BOOKS - MODERN PUBLICATION

### TEST PAPER 6

#### Exercise

1. In which alkyl halide  $SN_2$  mechanism is favoured maximum ?

A.  $CH_3Cl$



**Answer: A**



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2. The freezing point of 1 molar NaCl solution assuming NaCl to be 100 % dissociated in water is: ( $K_f = 1.86 \text{ K molality}^{-1}$ )

A.  $-1.86^\circ C$

B.  $-3.72^{\circ}C$

C.  $1.86^{\circ}C$

D.  $3.72^{\circ}C$

**Answer: B**



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3. A silver cup is plated with silver by passing 965 coulomb of electricity . The amount of Ag deposited is :

A.  $107.89g$

B. 9.89g

C. 1.002g

D. 1.98g

**Answer: D**



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**4. Fluorine can exist in the oxidation states :**

A. -1 only

B. —1 and +1 only

C. -1,+1,+3only

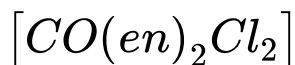
D. -1,+1,+3,+5,and+7

**Answer: A**



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5. What is the coordination number of metal in



A. 4

B. 5

C. 6

D. 3

**Answer: C**



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**6. Which one is the sweetest sugar ?**

A. Glucose

B. Fructose

C. Lactose

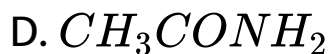
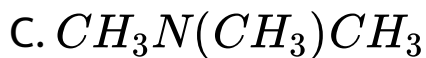
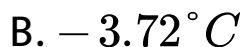
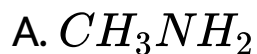
D. Sucrose

**Answer: B**



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7. Which will give carbylamine test,



**Answer: A**





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8. What is hypertonic solution?



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9. what is the geometry and magnetic behaviour of  $[NiCl_4]^{-2}$  ?



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10. Name the reagent used for the conversion of butan-2-one to butan-2-ol.



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11. Which biomolecules has the highest abundance in cell ?



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12. Number of particles present per unit cell of HCP crystal is \_\_\_\_ .



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13. The unit of rate constant for a zero order reaction is \_\_\_\_\_



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14. \_\_\_ are two tripositive, lanthanides ions which are colourless.



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**15.** How does the nature of central metal ion influence the formation and stability of complexes



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**16.** Give reason: Zinc oxide becomes yellow on heating



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17. After five half life periods for a first order reaction what fraction of reactant remains unreacted.



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18. Name four applications of electrolysis



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19. What is the effect of temperature on chemisorption ?



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20. Explain why nitrogen is inert as compared to phosphorus.



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21. In cupramine sulphate complex find out the oxidation number and coordination number of copper.



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## 22. Match the following

(h) Match the following :

**I**

(i) Antihistamine

(ii) Antibiotic

(iii) Tranquilizer

(iv) Antacid

**II**

(p) Equanil

(q) Omeprazole

(r) Terfenadine

(s) Streptomycin



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23. what is iodoform reaction? give an equation



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**24.** With reference to which classification has the statement "ranitidine is an antacid" been given?



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**25.** What is the crystal field stabilisation energy?  
How does the magnitude of  $\Delta_0$  decide the actual configuration of d-orbital in a coordination entity?



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26. Differentiate between coagulation and peptization.



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27. Give the principle of the preparation of Nylon 6.



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28. What is lanthanide contraction? Write any two of its consequences.





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**29.** What are the secondary valencies ?



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**30.** Give classification of proteins on the basis of their functions.



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**31.** How can you get acetic acid from methyl chloride ?



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**32.** How can you get cyanobenzene from Aniline



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**33.** How can you prepare 'Terylene' ?



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**34.** How do the structural differences between *HDPE* and *LDPE* account for the difference in nature, behaviour and use.



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**35.** Discuss the effect of dilution on the conductance of an electrolyte .



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**36.** A  $0.1N$  solution of  $NaCl$  has a specific conductance of  $0.00112\text{ohm}^{-1}\text{cm}^{-1}$ . Calculate the equivalent conductance of the solution.



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**37.** Write notes on band theory of metals.



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**38.** What do you mean by elevation in boiling point ?



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**39.** What is Arrhenius equation?



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**40.** Describe the preparation of Ozone.



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**41.** Write two uses of Ozone.



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42. How are ketones prepared from (i) salts of carboxylic acids (ii) acid chlorides ?

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43. How does acetone react with (i) ammonia (ii) Barium hydroxide (iii) hydroxylamine ?

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**44.** Write notes on : Importance of diazonium salt.



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**45.** Discuss the classification and functions of vitamins.



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**46.** Define synthetic polymers.



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