

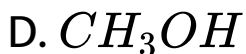
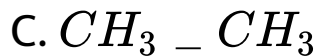
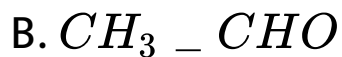
# CHEMISTRY

## BOOKS - MODERN PUBLICATION

### TEST PAPER 5

#### Exercise

1. What happens with when acetic acid is heated with  $LiAlH_4$  ?



**Answer:**



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2. The total number of atoms per unit cell of a face centred cubic crystal is

A. 1

B. 2

C. 3

D. 4

**Answer:**



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**3.** A substance which alters the rate of a reaction is known as :

A. Promoter

B. Catalyst

C. Activator

D. Initiator

**Answer:**



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4. Which of the following alloys does not contain copper?

A. Bronze

B. Brass

C. Bell-metal

D. Solder

**Answer:**



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5. The oxidation of toluene with alk.  $KMnO_4$

gives:

A. Benzaldehyde

B. Benzoic acid

C. Benzyl alcohol

D. Phenol

**Answer:**



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**6.** Soap is sodium or potassium salt of—

A. Stearic acid

B. Oleic acid

C. Palmitic acid

D. All of these

**Answer:**



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7. DNA multiplication is called :

A. translation

B. transduction

C. transcription

D. replication

**Answer:**



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8. If a spoon to be electroplated with silver , would it be made as cathode or anode in the cell?



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9. The bond angle in  $H_2S$  is:



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10. Which is the lightest transition metal ?



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11. Write general formula of carboxylic acid .



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12. Copper sulphate solution \_\_\_\_\_ stored in an iron vessel.



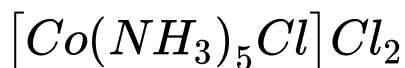
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13.  $Fe_3O_4$  is known as \_\_\_\_\_ .



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14. Write the IUPAC name of





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15.  $[Cr(NH_3)_6]^{3+}$  is paramagnetic, while  $[Ni(CN)_4]^{2-}$  is diamagnetic. Explain why?



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16. What are crystal systems ?



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17. What is semipermeable membrane?



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18. Why  $Zn$  liberates Hydrogen gas when reacts with  $H_2SO_4$  But silver does not ?



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19. What do you understand by Red Data Book ?



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20. Give two requirements for vapour phase refining.



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21. Why does  $NO_2$  dimerises.



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**22.** Can Lanthanum ion ( $Z= 57$ ) exist in +4 oxidation state ? Justify your answer .



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**23.** Why are low spin tetrahedral complexes not formed?



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**24.** Could a co-polymer be formed by step growth or chain growth or both ?



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**25.** What is "Chelate effect " ? Explain with examples .



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**26.** Oxygen is gas but sulphur is solid because:



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27. Explain pseudofirst Order reaction with an example .



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28. What happens when ammonia gas is passed through copper sulphate solution?  
Give reactions.



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**29.** What happens when acetaldehyde and acetone are separately treated with dilute alkali ?



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**30.** Why is  $NH_2$  group of aniline acetylated before carrying out nitration ?



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31. What happens when formaldehyde reacts with ammonia ?



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32. Match the following columns

(h) Match the following :

**I**

**II**

(i) Phenol

(p) Aromatic aldehyde

(ii) Benzaldehyde

(q) Antiseptic

(iii) Aldol condensation

(r) Formaldehyde

(iv) Cannizzaro reaction

(s) Acetaldehyde



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**33.** Explain the Hofmann bromamide reaction with one example.



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**34.** Low level of noradrenaline is the cause of depression. What type of drugs are needed to cure this problem? Name two drugs



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



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**36.** What is meant by abnormal molecular mass of solute?



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**37.** Activation energy of a reaction is:



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**38.** Write short note on Law of independent migration of ions.



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**39.** Derive an expression for the rate constant of a first order reaction? How does the rate constant relate to the half-life period?



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**40.** Discuss important of coordination compounds in boiligical system.



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**41.** What are the oxoacids of nitrogen and phosphorus?



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42. Give two methods Of preparation of acetone.



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43. How does acetaldehyde react with (i)  $HCN$  (ii) Phenyl hydrazine (iii)  $I_2$  and  $NaOH$



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44. Explain the acidic character of phenol.



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**45.** Explain the cleansing action of soaps.



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