



# CHEMISTRY

## BOOKS - MODERN PUBLICATION

### TEST PAPER 4

#### Exercise

1. The number of carbon atoms per unit cell of diamond is :

A. 4

B. 8

C. 6

D. 1

**Answer: B**



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2. Which has maximum freezing point ?

A.  $1M KCl$  solution

B.  $1M MgCl_2$  solution

C.  $1M FeCl_3$  solution

D.  $1M C_6H_{12}O_6$

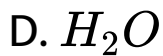
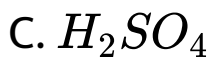
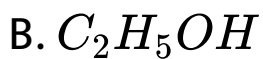
**Answer: D**



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**3.** Which is used as catalyst to retard the oxidation of chloroform ?

A. Glycerol



**Answer: B**



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4. The molecule that can give Cannizzaro's reaction is

A. acetaldehyde

B. formaldehyde

C. butyraldehyd

D. propinaldehyde

**Answer: B**



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5. In blast furnace, iron oxide is reduced to iron

by

A. carbon

B. limestone

C.  $\text{CO}_2$

D. CO

**Answer: D**



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**6.** The oxidation of toluene with alk.  $\text{KMnO}_4$

gives:

A. benzoic acid

B. benzaldehyde

C. benzene

D. benzyl, alcohol

**Answer: A**



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7. Lucas test is done for:

A. alkylhalides

B. alcohols

C. aldehydes

D. carboxylic acids

**Answer: B**



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**8. What is the electrode potential?**



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9. Which among the following is the strongest oxidant ( $ClO_4^-$ ,  $BrO_4^-$ ,  $IO_4^-$ .)



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10. Name any two antipyretic drugs.



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11. Give one example of transport protein.



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12. Charge on one mole of electron is \_\_\_\_\_



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13. IUPAC name of  $K_4[Fe(CN)_5(NO)S]$



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14. The reaction of aniline with  $NaNO_2$  and HCl at  $0^\circ C$  to form benzenediazonium

chloride is called....



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**15.** Which polymer is used in laminated sheet ?



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**16.** How may the conductivity of an intrinsic semiconductor be increased?



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17. What happens when blood is placed in pure water ?



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18. The equivalent conductance of 0.001N KCl solution is  $147 \text{ ohm}^{-1} \text{cm}^2 \text{gmeq}^{-1}$  at  $25^\circ \text{C}$ . Find the specific conductance.



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**19.** What is the difference between catalyst and photosensitizer ?



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**20.** What meant by chelate ? Give an example.



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**21.** What are the different oxidation states, exhibited by lanthanoids?



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22. Which set of elements is called chalcogens ?



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23. Give a chemical test to distinguish between ethyl alcohol and methyl alcohol.



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**24.** What problem arises in using alitame as artificial sweetener?



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**25.** What is spectrochemical series? Explain the difference between a weak field ligand and a strong field ligand.



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**26.** What is the packing efficiency in a bcc arrangement of crystals ?



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**27.** What is the difference between order and molecularity of a reaction ?



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**28.** Write short note on Iodoform reaction.





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**29.** Write the principle of preparation of bakelite. Give its two uses.



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**30.** Briefly discuss the structure of proteins



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**31.** Write the principle of preparation of Neoprene.



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**32.** How can you prepare phenol by Dow's process?



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**33.** What is Cannizzaro's reaction? Give equation.



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**34.** Why the detergent with straight chain hydrocarbon group are better than the detergents with branched chain hydrocarbon group ?



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**35.** What is a semiconductor? What are n-type and p-type semiconductors?



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**36.** According to collision theory:



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**37.** Explain the following terms:

Electrophoresis





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**38.** State and explain Faraday's laws of electrolysis. 0.2015g of copper were deposited by a current of 0.25 A in 45 min. What is the ECE of the copper?



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**39.** State and explain Faraday's laws of electrolysis. How many grams of chlorine will be produced by the electrolysis of molten

sodium chloride with a current of 5.5 A for 25 min?



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**40.** Calculate the oxidation number of sulphur in pyrosulphuric acid.



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**41.** Write a note on interhalogen compounds.



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**42.** Write three main postulates of VBT for explaining bonding in co-ordination compounds.



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**43.** What is diazonium salt ? Give its preparation.



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**44.** Give three synthetic uses of benzene diazonium chloride



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**45.** Write short notes on: Cannizzaro's reaction.



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**46.** Discuss Reimer-Tiemann reaction.







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## **47. Chemicals in food**



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