



# CHEMISTRY

## BOOKS - MODERN PUBLICATION

### TEST PAPER 2

#### Exercise

1. What happens when phenol is distilled with zinc dust ?

A. biphenyl

B. benzene

C. benzaldehyde

D. phenolphthalein

**Answer: B**



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**2. How many tetrahedral holes are occupied in diamond ?**

A. 0.25

B. 0.5

C. 0.75

D. 1

**Answer:**



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**3.** An ion is reduced to element when it absorbs  $6 \times 10^{20}$  electrons. The number of equivalent of ion is :

A. 0.1

B. 1

C. 0.001

D. 0.0001

**Answer: A::B::C**



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4. Bleaching property of  $SO_2$  in presence of moisture is due to

A. oxidation

B. reduction

C. neither oxidation nor reduction

D. none of the above

**Answer: C::D**



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**5. Rectified spirit contains :**

A. 75% ethanol

B. 85% ethanol

C. 95% ethanol

D. 100% ethanol

**Answer: A**



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**6.** Which of the following carbohydrates is abundant in nature

A. glucose

B. fructose

C. starch

D. cellulose

**Answer: C**



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7. How many isomers can be formed for the complex  $[Co(C_2O_4)_2(NH_3)_2]$  ?

A. 1

B. 2

C. 3

D. 4

**Answer: A::C::D**



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**8. What is the most remarkable feature of zeolite catalysis?**



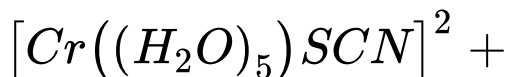
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9. Proteins on hydrolysis give

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10. Write the IUPAC name of



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11. Name the sugar present in DNA.

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12. Van't Hoff factor(i):



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13. \_\_\_ is formed when acetic acid is treated with lime water and the product is dry distilled



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**14.** \_\_\_\_\_ has the maximum size among trivalent ions in lanthanide series



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**15.** What is tincture iodine ? What its use ?



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**16.** Explain the following with suitable examples:

## Ferrimagnetism



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**17.** What are lyophilic and lyophobic colloids ?

Give one example of each.



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**18.** What is the unit of equivalent conductance ? How does the equivalent conductance vary with dilution?



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**19.** What do you understand by zero order reaction?



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**20.** How does the copper is extracted from low grade ore?



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21. Why oxygen is a gas, whereas sulphur is a solid?



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22. Which of the following is the IUPAC name of  $K_4[Fe(CN)_6]$  ?



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23. What are enzymes ?





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24. Write the mechanism of the reaction of HI with methoxy methane.



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25. Derive the formula to calculate the density of a cubic crystal of elements.



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**26.** State Henry's law.



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**27.** Give reason. Why in chemistry of all the lanthanoids is quite similar?



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**28.** Although chlorine is an electron withdrawing group, yet is ortho directing in



electrophilic aromatic substitution reaction.

Explain.



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**29.** Although phenoxide ion has more number of resonating structures than carboxylate ion, carboxylic acid is a stronger acid than phenol.

Why?



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**30.** What happens when formaldehyde reacts with *HCN*?



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**31.** How can a carboxylic acid be converted to an aldehyde in two steps?



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**32.** How can you prepare benzoic acid from Ethyl benzene? Give equations only.



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**33.** Why should medicines not be taken without consulting doctors ?



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**34.** Derive an expression for the rate constant of first order reaction. Give an example of first order reaction.



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**35.** Derive an expression for the rate constant of first order reaction. Give an example of first order reaction.



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**36.** 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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**37.** State and explain Kohlrausch's law of independent migration of ions .

The equivalent conductance of infinite dilution ( $A_0$ ) for sodium acetate , sodium chloride and hydrochloric acid are 78, 109 and 384

$ohm^{-1}cm^2 g.$

Calculate the  $A_0$  of acetic acid .



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**38.** Write notes on : Allotropes of sulphur



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**39.** Give a brief account of Werner's coordination theory.



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**40.** Write short notes on Hofmann's bromamide reaction.



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**41.** Discuss Reimer-Tiemann reaction.



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**42.** Write short notes on: Aldol condensation reaction.



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**43.** Give any two general methods of preparation of monocarboxylic acids. What is the reaction of formic acid with.

Tollen's reagent?



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