

HSEIIKROXII

15018-B

**CHEMISTRY**

(Long Answer Type Questions)

1. Define Depression in Freezing point and derive its relation with the Molecular mass of non-volatile solute.

Or

State Raoult's law and explain it in case of volatile solute.

2. Define Allotropy Explain different allotropic forms of Phosphorus.

Or

Give the electronic configuration and oxidation states of group 17 elements.

3. Why do transition metals exhibit variable oxidation? State and form coloured compounds.

Or

How  $\text{KMnO}_4$  is prepared ? Give its three oxidising properties. Write five addition reactions of  $> \text{C} = \text{O}$  group.

Or

Explain with the help of an example each Aldol condensation and Cannizzaro reaction.

(Short Answer Type Questions)

5. Discuss Magnetic properties of solids

6. Explain with diagram Fuel cell

7. Derive an expression for the rate constant in the Zero order reaction.

8. Give three points of difference between Lyophilic and Lyophobic colloids.

9. Define with example:

(i) Co-ordination Isomerism

(ii) Linkage Isomerism

10. Explain Electro-magnetic separation method for the concentration of ores

11. Give three oxidising properties of ozone

12. Give the preparation of Bakelite of its uses.

(Very Short Answer Type Questions)

13. Define order of reaction and molecularity of reaction

14. Give the reactions which occur in dry cell

15. Write two uses of DDT.

16. Write two methods of preparation of phenol.

17. Give two methods for the preparation of Ethers.

18 Why Aniline is basic?

19. Name two Analgesic drugs.

20. Give two substitution reactions of Alkyl halides.

(Objective Type Questions)

(a) Fill in the blanks

(i) There are ..... types of voids.

(ii)  $\text{Fe}(\text{OH})_2$  has .....

(b) Tick marks the True/False statements given below.

(i) The IUPAC name of Acetic acid is Methanoic acid

(ii) The aldehydes and ketone have  $> \text{C} = \text{O}$  functional group.

(c) Give one word substitution to the following:

(i) The process of preparation of benzene diazonium salt is called as .....

(ii) Preparation of 2, 4, 6 Tribromoaniline by the action of  $\text{Br}_2/\text{H}_2\text{O}$  on Aniline is called as..... <https://www.jkboseonline.com>

(d) (i) What is the formula of sucrose ?

(ii) The deficiency of which vitamin causes scurvy.

(e) Choose the correct/most appropriate answer given below against each and write it in your answer-book.

(i) The Vitamin present in sunlight is:

- (a) Vitamin A                      (b) Vitamin C  
(c) Vitamin D                      (d) Vitamin E
- (ii) DNA contains the base.
- (a) Guanine                      (b) Adenine  
(c) Cytosine and oil              (d) All the above

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