

## HSEIKROXII

45018-A

### CHEMISTRY

(Long Answer Type Questions)

1. Define osmotic pressure. Explain, how the molecular mass of a non-volatile solute is determined from it?

Or

Discuss Association and Dissociation.

2. How ozone is prepared? Give its three oxidising properties.

Or

Discuss how  $H_2SO_4$  is manufactured by contact process.

3. Explain catalytic properties and formation of coloured ions by d-block elements.

Or

How  $K_2Cr_2O_7$  is prepared ? Give its three oxidising properties

4. Give five methods of preparation of Aldehydes.

Or

Give five chemical properties of Carboxylic acids

(Short Answer Type Questions)

5. Explain electrical properties of solids.

6. How corrosion is prevented ?

7. Discuss the effect of temperature on rate of reaction

8. Explain zone refining.

9. Give three points of difference between Physical Adsorption and Chemical Adsorption

10. How carbohydrates are classified? <https://www.jkboseonline.com>

11. Give the preparation and uses of polythene

12. Give three chemical properties of HCl

(Very Short Answer Type Questions)

13. State Faraday's second law of electrolysis

14. Define Rate of chemical reaction.

15. Define Ionisation Isomerism Give an example

16. Give two chemical properties of chlorobenzene.

17. Why phenols are acidic ?

18. How amines are classified ?

19. Give two chemical properties of ethers

20. Name two Antihistamines

(Objective Type Questions)

21. (a) Fill in the blanks:

(i) The Insulators have ..... conductivity.

(ii) Two types is Geometric Isomerism in co-ordination compounds are Cis and..... isomers.

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

(i) The formula of Iodoform is  $\text{CHBr}_3$ . (True/False)

(ii) Chlorobenzene is an Arythalide.

(c) Give one word substitution to the following:

(i) In the manufacture of  $\text{NH}_3$  Iron acts as.....

(ii) The chemical which is used to prevent the formation of Acid in the stomach is called as.....

(d) (i) Write the structure of pentan-2-one

(ii) Write the structure of Fructose.

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

(i) The formula of Aniline is. <https://www.jkboseonline.com>

(a)  $\text{CH}_3\text{NH}_2$  (b)  $\text{C}_4\text{H}_5\text{NH}_2$  (c)  $\text{C}_5\text{H}_5\text{NHNH}_2$  (d)  $\text{C}_2\text{H}_5\text{CONH}_2$

(ii) Ethyl amine is:

(a) Primary amine

(b) Secondary amine

(c) Tertiary amine

(d) None of above