

Note: Time allowed for section B and C is 2 hours and 40 minutes.

SECTION "B"

Marks: 32

II. Attempt any EIGHT Parts out of the following. Each Part carries equal marks.

- i. Differentiate between forward and Reverse reactions & give one example of each.
- ii. Distinguish strong acids from weak acids. Give two examples of each.
- iii. Calculate the P^H and P^{OH} of 0.5 M solution of HCl?
- iv. Write any five uses of organic compounds?
- v. What happens when alkyl halide is reduced?
- vi. Distinguish between Fats and oils?
- vii. What is the composition of atmosphere?
- viii. Differentiate between soft and hard water?
- ix. Define Metallurgy? What are its steps.
- x. Write any five uses of carbohydrates.
- xi. Discuss how the acid rain affects the aquatic life?

SECTION "C"

Marks: 21

Note: Attempt any THREE questions of the following. Each question carries equal Marks.

- | | | |
|------|--|---|
| III. | (a) Derive an expression for equilibrium constant for a general reaction. | 4 |
| | (b) Differentiate between Acidic salt and neutral salt. Give two examples of each. | 3 |
| IV. | (a) Classify the organic compound as saturated and unsaturated? Give examples of each. | 3 |
| | (b) Write two methods for the preparation of Alkenes? | 4 |
| V. | (a) Define the term vitamin and classify it? | 4 |
| | (b) Differentiate between primary and secondary pollutants. | 3 |
| VI. | (a) Write the different uses of Urea? | 4 |
| | (b) Write the chemical reaction of water with | 3 |
| | i) C | |
| | ii) Cl_2 | |
| | iii) CaO | |