

## Section-B

### (Short Answer)

**Note:** Answer any EIGHT of the following questions. Each question carries 05 marks.

Q.2: What is the contribution of Jabir-Ibn-Hayan in the field of Chemistry?

Q.3: Calculate the molar mass of  $\text{CH}_3\text{COOH}$ .

Q.4: Out line the main points of Dalton's atomic theory.

Q.5: Write note on any ONE of the following:

Electronegativity

Heavy water

Q.6: Distinguish between Covalent bond and Co-ordinate Covalent bond.

Q.7: What is Brownian movement? Describe with suitable examples.

Q.8: Give the formula of the following salts:

(a) Sodium Carbonate

(b) Baking Soda

(c) Blue Vitrol

(d) Epsam Salt

(e) Potash Alum

Q.9: Ozone is important in the upper atomosphere, why?

Q.10: Draw the structure formulas for the three isomers of Pentane.

Q.11: Give any five physical properties of silicon.

Q.12: Calculate the pH of  $5.2 \times 10^{-4} \text{ M-HNO}_3$ .

Q.13: Balance the following equations:



## Section-C

### (Descriptive Answer)

**Note:** Answer any TWO of the following questions. Each question carries 14 marks.

Q.14: (a) How methane is prepared? Give its properties.

(b) Can one substance have same empirical formula and molecular formula? Explain with the help to examples.

Q.15(a) Describe the structure and working of lead storage battery.

(b) Explain why 100 ml solution of  $\text{KNO}_3$  can not hold more than 37 gm of  $\text{KNO}_3$  in dissolved state.

Q.16(a) Differentiate between termoplastic and thermosetting plastic.

(b) Describe discovery of electron in detail.