

Marks : 48

☆ Subjective (Part-I) ☆

(Group II)

Time: 01:45

2. Write short Answers of any five part. (5 × 2 = 10)

- (i) Define chemistry.
- (ii) How a free radical formed?
- (iii) Define empirical formula with example.
- (iv) Give two properties of positive rays.
- (v) What are the defects of Rutherford's Atomic Model?
- (vi) Why are the noble gases not reactive?
- (vii) Why shielding effect of electron makes cation formation easy?
- (viii) Give the trend of ionization energy in a period.

3. Write short Answers of any five part. (5 × 2 = 10)

- (i) Define duplet and octet rule.
- (ii) What is the difference between single covalent bond and double covalent bond?
- (iii) Why does ice float on water?
- (iv) What is effusion of gases? Give an example.
- (v) Write the names of two allotropic forms of sulphur.
- (vi) Define solution with an example.
- (vii) What do you mean by mass/volume %?
- (viii) How one molar solution is prepared?

4. Write short Answers of any five part. (5 × 2 = 10)

- (i) Define electrochemistry.
- (ii) What is electrolysis?
- (iii) What is meant by electrolytes? Give example.
- (iv) Define electrochemical cell.
- (v) What are metalloids? Give two example.
- (vi) Write the names of any two moderate reactive metals.
- (vii) Why is platinum used in Jewelry making?
- (viii) Write any two chemical properties of metals.

☆ SUBJECTIVE (Part-II) ☆

Attempt any two Questions. Each question has 9 marks.

9 × 2 = 18

- 5. (a) Write five postulates of Bohr's atomic model.
- (b) Write any four differences between molecule and molecular ion.
- 6. (a) Define ionic bond and ionic compounds. Also write properties of ionic compounds.
- (b) Write detailed note on factors affecting diffusion of liquids.
- 7. (a) Define voltaic cell. Write any four differences between electrolytic cell and galvanic cell.
- (b) Write notes on: Percentage Mass / Mass      Percentage Volume / Mass