Roll No.(in Figures): .... (in Words) ....

Maximum Marks: 48   (SUBJECTIVE TYPE)   Time Allowed :1.45 Hours

PART - I

Q2. Write short answers to any FIVE (5) questions: (5×2=10)

(i)   Define Chemical Formula with examples.

(ii)   Differentiate between Atom and Ion.

(iii)   Write two properties of Canal Rays.

(iv)   Write the Electronic Configuration of Argon (At No = 18) and Boron (At No = 5).

(v)   Define Isotopes. Give examples.

(vi)   What is meant by Electronegativity?

(vii)   Briefly describe the trend of Atomic Radius in a group.

(viii)   Define Period and Group.

Q3. Write short answers to any FIVE (5) questions: (5×2=10)

(i)   Why a Dipole developes in a Molecule?

(ii)   What are the Van der Waals Forces?

(iii)   What is a Dative Covalent Bond?

(iv)   Why does Ice float over water?

(v)   Convert-30°C to Kelvin Temperature.

(vi)   What is Diffusion? Give one example

(vii)   Differentiate between Evaporation and Boiling Point.

(viii)   Define Boyl's Law of Gases.

Q4. Write short answers to any FIVE (5) questions: (5×2=10)

(i)   What do you mean by "Like dissolves like"?

(ii)   Why do we stir paints thoroughly before using?

(iii)   Differentiate between Strong and Weak Electroylytes.

(iv)   Why Steel is plated with Nickel electroplating before the electroplating of Chromium?

(v)   Why an Iron grill is painted frequently?

(vi)   Why Copper is used for making Electrical Wires?

(vii)   Why Magnesium is harder than Sodium?

(viii)   Why does Electropositivity increase from top to botton in a group?

PART - II

Note: Attempt any TWO questions.   (9×2=18)

Q5. (a) Explain types of Molecules in detail.   5

     (b) Explain results of the experiment of Rutherford's Atomic Model.   4

Q6. (a) Define Ionic Compound with an example. Give its properties.   5

     (b) Describe Solid state of Matter. Explain its various properties.   4

Q7. (a) Define Molarity. Write its unit and write its formula to prepare Molar solution.   5

     (b) Discuss the construction and working of the cell in which electricity is produced.   4