Chemistry	Ninth, 2024 Gujranwala Board	Group – II
Time: 1.45 hrs.	Subjective	Marks : 48

Note: **Section I is compulsory. Attempt any TWO (2) questions from Section II.**

SECTION – I

Q.2 **Write short answers to any FIVE (5) questions:** 10

i. Define a substance with an example.
ii. Write down the symbol and valency Arsenic.
iii. Write down two defects of Rutherford's Atomic Model.
iv. How can U-235 be used for power generation?
v. Define Dobriner's Triads and give an example.
vi. Why are noble gases not reactive?
vii. Give the trend of Electron Affinity in a group with reason.
viii. Define Electronegativity.

Q.3 **Write short answers to any FIVE (5) questions:** 10

i. Ionic compounds are solids. Explain.
ii. What types of Covalent Bonds are formed in Oxygen molecule and Hydrogen molecule?
iii. Why is BF_3 electron deficient?
iv. Define crystalline solids. Also give examples.
v. Define condensation.
vi. What is meant by % concentration unit?
vii. What is Tyndall effect?
viii. Write down two examples of "Liquid in Gas" solution.

Q.4 **Write short answers to any FIVE (5) questions:** 10

i. Define Non-Electrolytes. Give an example.
ii. What is 'Salt Bridge'? Write down its function in a Galvanic Cell.
iii. What is 'Alloying'? Give one example.
iv. Define Oxidation Number with an example.
v. What is the difference between 'Alkali' and 'Alkaline Earth Metals"?
vi. Write down any two uses of Calcium metal.
vii. Why are sliver and gold least reactive metals?
viii. Write down chemical reactions of Mg with O_2 and Na_2

SECTION-II

Q.5(a) Write down a note on any five types of molecules. 5
(b) Write down general properties of Covalent Compound 4

Q.6(a) Write down any five results of Rutherford's experiment 5
(b) Define vapour pressure. Describe various factors affecting it. 4

Q.7(a) Describe the process of "Rusting of Iron". 5
(b) Give four characteristics of colloids. 4