Chemistry	Ninth, 2023 Lahore Board	Group – II
Time: 1.45 hrs.	Essay Type	Marks : 48

PART – I

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

i. Define industrial chemistry and analytical chemistry.
ii. Explain why hydrogen and oxygen are considered as elements whereas water as a compound?
iii. Write two properties of neutron.
iv. How many maximum electrons can be accommodated in K, L, M, N shells?
v. What is the trend of ionization energy in period and why?
vi. Define electronegativity. Which one halogen has highest electronegativity value?
vii. Write names of elements of first period.
viii. Write down the name of elements of group-I (any two).

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

i. Define duplet and octet rule.
ii. Why ice floats over water?
iii. Define metallic bond.
iv. What is meant by standard atmospheric pressure?
v. Define dynamic equilibrium.
vi. What is diffusion? Explain with an example.
vii. How molar solution is prepared?
viii. Why are colloids quite stable?

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

i. Define oxidation number.
ii. What is meant by electrolysis?
iii. What are weak electrolytes? Give at least one example.
iv. Define rusting. Write its important condition.
v. What do you mean by 22 carat gold?
vi. Write down chemical reaction of Mg with O_2 and N_2.
vii. What is the trend of electropositivity in a group and a period?
viii. Write any two physical characteristics of metals.

PART - II

Note: Attempt any TWO questions.

Q.5(a) List five differences between compound and mixture.
(b) Describe four properties of canal rays.
Q.6(a) Describe types of covalent bonds.
(b) Define evaporation. Explain factors affecting evaporation.
Q.7(a) How can we prepare sodium hydroxide (NaOH) on commercial scale? Discuss its chemistry along with diagram.
(b) What is saturated solution and how it is prepared?