

Chemistry	Lahore Board Ninth, 2021	Paper -- I
Time: 1.45 Min.	Subjective Type	Marks : 48

(Group-II)

- 2. Write short answers to any FIVE (5) questions:** (10)
- Differentiate between atomic number and mass number.
 - What is the difference between physical and chemical properties? Give an example of each.
 - Why ionic compounds have high melting and boiling points?
 - Write down electronic configuration of aluminium according to shells and subshells.
 - Differentiate between shell and subshell with examples.
 - Describe the trend of electronegativity.
 - Define ionization energy.
 - Write two features of long form of periodic table.

- 3. Write short answers to any FIVE (5) questions:** (10)
- Define octet rule and duplet rule.
 - Define double covalent bond with one example.
 - What is hydrogen bonding?
 - What is absolute zero?
 - How intermolecular forces affects evaporation?
 - Define aqueous solution with one example.
 - What is percentage - mass/volume (% m/v)?
 - Define saturated and unsaturated solution.

- 4. Write short answers to any FIVE (5) questions:** (10)
- Define reducing agent.
 - What is meant by rust?
 - Define electrochemical cell.
 - What is meant by strong electrolytes? Give example.
 - Why is copper used for making electrical wires?
 - Define non-metals.
 - What is meant by electropositivity?
 - Write down the reaction of fluorine with water.

PART - II

Note: Attempt any Two questions.

- (a) What were the results concluded by Rutherford in his experiment? (4)
(b) Define molecule and explain its types. 5
- (a) Explain dipole-dipole interaction with example of HCl . (4)
(b) State Boyle's law and derive its equation. 5
- (a) Define electroplating and explain the electroplating of chromium. (4)
(b) What is molarity? Write its formula and explain how one molar solution of sodium hydroxide (NaOH) is prepared? 5