

<b>Chemistry</b>	<b>Ninth Lahore Board 2019</b>	<b>Paper - I</b>
<b>Time: 1.45 hrs</b>	<b>Essay Type (Group - II)</b>	<b>Marks : 48</b>

### PART-I

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

- i Define organic chemistry.
- ii Write down the name of any two elements which were discovered in early ages.
- iii What is homoatomic molecule? Give an example.
- iv What are canal rays?
- v What is meant by quantum and quanta?
- vi How did Newlands arrange the elements?
- vii Write down the name of the elements of first period.
- viii What is electron affinity? Give an example.

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

- i Why a covalent bond becomes polar?
- ii Describe at least two necessary conditions for the formation of covalent bond.
- iii Differentiate between lone pair and bond pair of electron.
- iv What do you mean by volume/volume %? Also give one example.
- v Define the term allotropy with examples.

vi Define suspension with an example.

vii Why water is called a universal solvent?

viii Define a solution with an example.

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

- i What is meant by strong electrolytes? Give one example.
- ii Why is galvanizing done?
- iii What is difference between valency and oxidation state?
- iv Define oxidation in term of electrons? Give an example.
- v Give any two uses of sodium.
- vi Define Redox reaction.
- vii What is meant by electropositive character? Give one example.
- viii Write the chemical reaction of methane with chlorine. Give its chemical equation.

### PART - II

**Note: Attempt any TWO questions.**

- 5.(a) How neutron was discovered? Write its properties 5
- (b) Give any four differences in compound and mixture 4
- 6.(a) Write down any five properties of metals 5
- (b) Define evaporation and it depends on which factors? 4
- 7.(a) Define corrosion and its prevention. Describe any three methods for prevention of corrosion. 5
- (b) Write down the four characteristics of colloid. 4