

Chemistry (New Scheme)	9th...2018 Gujranwala Board	Paper I (Essay Type)
Time: 1:45 Hours	(Group-I)	Max Marks: 48

- 2. Write short answers to any FIVE (5) questions. 10**
- Differentiate between homogenous and heterogenous mixture.
 - Define free radical. Give example.
 - What is meant by "ion"? Give its types.
 - Write two properties of neutron.
 - Why do the isotopes of an element have different atomic masses?
 - What is meant by "Dobereiner's triads"?
 - Why shielding effect of electron makes cation formation easy?
 - Why the elements are called S and P block elements?

- 3. Write short answers to any FIVE (5) questions. 10**
- Define bonding electrons.
 - State Boyle's law.
 - Why are gases compressible?
 - Write two properties of ionic compounds.
 - Define polar compound. Give an example.
 - Define solvent. Give an example.
 - What is Tyndall effect?
 - Write the names of two things that dissolve in non-polar solvents.

- 4. Write short answers to any FIVE (5) questions. 10**
- Define redox reaction.
 - What is meant by "non-electrolytes"?
 - Define corrosion with an example.
 - How electroplating of zinc is carried out?
 - Write down any two chemical properties of metals.
 - What is meant by "malleability and ductility of metals"?
 - Write down any two uses of magnesium.
 - Why the second ionization energy of magnesium is higher than the first one?

PART-II

- Describe any five characteristics of cathode rays.
 - Write any four types of molecules with examples.
- Define hydrogen bonding and explain that how to these factors affect the physical properties of compounds.
 - Explain the Charles's law of gases with experimental verification.
- Explain the process of rusting of iron.
 - Describe solute and solvent with an example.