## Ninth Gujranwala Board 2014 Chemistry (New Scheme) Paper I (Subjective) Time: 2.45 Hours Marks: 63 (Group-I) is compulsory. Attempt any THREE questions from Section II and any TWO parts from Section III. SECTION-I Write short answers to any FIVE questions: $(2\times5=10)$

- Define octet rule. Define non-polar covalent bond and give an example.
  - Define hydrogen bonding. 111.
  - State Boyle's law.
- Define diffusion. vii. Why HF is a weak acid?

3.

ii.

viii. Write down two chemical properties of non-metals.

 $(2 \times 5 = 10)$ 

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Write short answers to any FIVE questions:

What is meant by condensation?

Chemistry Differentiate between Physical i-Biochemistry.

Define empirical formula and molecular formula.

- Write two difference between Ion and Atom. iii. Write the electronic configuration of "P". iv.
  - State any two properties of cathode rays. Complete the chemical equation

Define electron affinity with an example.

- Bè + 4Be →-
- ix. Write names of any four elements of group 17. Write short answers to any FIVE questions:

viii. Define ionization with an example.

- What is alloy? Give an example. What is percentage  $\left(\frac{m}{m}\right)$ ?
  - What is the reason for the difference between solution and colloids?

Why O2 is necessary for rusting?

What is tyndall effet?

state?

mixture.

diagram.

10.(a) i.

Why an iron grill is painted frequently? vii- Why galvanizing is done?

What is the difference between valency and oxidation

SECTION-II (Each part 'a' has 3 marks and part 'b' has 4 marks) Calculate the gram molecule (number of moles) in 40g of phosphoric acid (H<sub>3</sub>PO<sub>4</sub>)

Write down any four differences between compound and

(b) Describe the important features of Modern Periodic Table. 7.(a) What is meant by Charles' law? Discuss its experimental verification.

6.(a) Write any three applications of isotopes.

(b) Describe the properties of ionic compounds.

8.(a) Write three factors which affect the solubility of solute. (b) Write four physical properties of non-metals.

9. (a) Explain oxidation and reduction reaction with the help of an

- example. (b) Explain the method of electroplating with the help of
- SECTION-III

## sublimation process. Which material is required for the preparation of 0.1 (b) i.

Write two uses of burette.

oxalic acid solution having 250 cm3 volume? Write the procedure for the preparation of 0.1 M oxalic

Write the procedure to purify ammonium chloride

- acid solution having 250 cm3 volume. Write the material which is required for the preparation of pure copper sulphate crystals from impure copper
  - sulphate. 0.1 M sodium carbonate is given to you. How much volume of 0.1 M sodium carbonate is required to prepare 0.01 M 100 cm<sup>3</sup> solution?