## Ninth Gujranwala Board 2014

Chemistry (New Scheme) Paper I (Subjective)

Time: 2.45 Hours Time:

Marks: 63

(2×6=12)

 $(2 \times 5 = 10)$ 

(Group-II)

Note: Section I is compulsory. Attempt any THREE questions from Section II and any TWO parts from Section III.

SECTION-I

2. Write short answers to any FIVE questions:  $(2\times5=10$ 

- i. What is meant by triple covalent bond? Explain it with an example.
- Why chlorine can accept only 1 electron?
   Explain non-polar covalent bond with an example.
- iv. Define standard atmospheric pressure.
- v. Why are the rates of diffusion in liquids slower than
- that of gases?
  vi. Differentiate between Boyle's law and Charles' law.
- vii. Write trend of electronegativity in a group.
  - viii. Describe any two uses of sodium.
- Write short answers to any SIX questions:

Differentiate between industrial and analytical chemistry.

- ii. What is the difference between atoms and ions?
  iii. Define atomic mass unit. Why is it needed?
- iv. How does electron differ from neutron?
- v. State any two defects in Rutherford's atomic model.
- vi. Write the electronic configuration of "S".

  vii. What is meant by periodic function?
- viii. State Mendeleev's periodic law.
- ix. What is shielding effect?
- Write short answers to any FIVE questions:

Define saturated solution.

ii. Define solubility.

What is the difference between solute and solvent.

iv. What is meant by  $\left(\frac{m}{v}\right)$ ?

iii.

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state?

vi. What is the difference between valency and oxidation

Calculate oxidation number of chlorine in KClo

vii. Define oxidation and reduction.

viii. Define weak electrolyte and give an example.

## (b) State any four steps for writing a chemical formula.

5.(a) Define atomic number and mass number with examples.

SECTION-II

(Each part 'a' has 3 marks and part 'b' has 4 marks)

6.(a) Write three properties of neutron particles.(b) Define electron affinity. Give its trend in group and period.

7.(a) Describe the factors which influence the diffusion of liquid.

- (b) Describe the properties of covalent compounds.
- 8.(a) Explain the effect of temperature on solubility.(b) Describe the chemical reaction of sodium with water;
- oxygen, chlorine and hydrogen.

  9. (a) Define electroplating. How electroplating of tin is carried
  - out?
    (b) Describe in detail the electrolysis of water.

    SECTION-III
- 10.(a) i. Write the material required to separate the given mixture of iron filings and sand by physical method. 2

food indirectly.

11.

11.

## Write down procedure to determine the melting point of

- biphenyl.

  (b) i. Write the names of two acids which we use in our daily

Write brief procedure to demonstrate that some

- chemical reactions release energy in the form of heat. 3

  i. Write down the material required to prepare 0.1 M solution of oxalic acid.
  - ii. Write down procedure for the following experiment. "Prepare pure copper sulphate from the given impure

sample of copper sulphate."