SECTION -B

Q1: Attempt any eight of the following. An carry equal marks.

i: Differentiate between gram atomic mass and gram

molecular mass with example.

iii How many moles are there in 8.9×10²³ hydrogen atom?

iii: Write down any four points of Rutherford atomic

v: What is shielding effect? Give its trends in periodic table.

iv: Draw electronic configuration of (a) Ne10, (b) Cl17

vi: Make a general sketch of the periodic table without showing s,p, d and f-block elements.

vii: Explain coordinate covalent bond with at least one example?

viii: Diamond is crystalline allotropic form of carbon, example.

ix: Why we stir paints before use it?

model?

x: What is electroplating? Give two purposes of electroplating.

xi: Write at least four uses of sodium.

SECTION -C Marks: 21

Note: Attempt any Three questions.

Q2) a: What is chemistry? Discuss the contribution of Jabber-ibn-Hayan in the field of chemistry.

b: Why Dalton atomic theory is considered as a base for modern atomic concepts?

Q3) a: Discuss ionization potential. Give its trends in periodic table.

with suitable example.

Q4) a: Define vapour pressure. What are the factors affecting the vapour pressure?

b: Calculate the morality of 5.00 cm³ of solution containing 7.50 grams of CH₃OH.

Q5) a: Discuss the preparation of sodium hydroxide (NaOH) from brine along with its important reactions.

b: Give the reactions of magnesium (Mg) with

(i) HCI (ii) CI₂ (iii) O₂