CHEMISTRY
9th (Fresh/Reappear)

Note: Time allowed for Section – B and Section – C is 2 Hours and 45 minutes.

Marks: 32

Section – B

Q-II   Answer any EIGHT parts. Each part carries FOUR marks.

1.   Describe the contributions of Jabber Ibn Haiyan in the field of Chemistry.

2.   Write electronic configuration for $_{14}^{28}Si$ and $_{18}^{40}Ar$.

3.   Define atomic radius and explain its trends in periodic table.

4.   Why do atoms form chemical bond?

5.   Differentiate between diffusion and effusion.

6.   Why NaOH is a strong but NH_4OH is a weak electrolyte?

7.   Calculate the molarity of 50.0 cm^3 of solution containing 7.50 grams of $CaCl_2$.

8.   Write down the chemical reaction of chlorine with $Ca(OH)_2$ and NH_3.

9.   Differentiate between polar and non-polar covalent bond.

10. Write any four physical properties of Halogens.

11. What is Galvanic Cell?

Section – C

Marks: 21

Note : Attempt any THREE questions. All questions carry equal marks.

Q-III (a) State and explain with example empirical formula and molecular formula of a compound.   (4)

       (b) Write the chemical formula for: (i) Methane   (ii) Ammonia   (iii) Sulphuric Acid   (3)

Q-IV   (a) Explain the Bohr's atomic theory.   (4)

       (b) Describe the fundamental particles of an atom.   (3)

Q-V   (a) What is vapour pressure? What are the factors which affect vapour pressure?   (5)

       (b) Why evaporation causes cooling effect?   (2)

Q-VI   (a) What do you mean by percentage composition? Write its types.   (5)

       (b) Differentiate between saturated and unsaturated solutions.   (2)