ii) Differentiate between Physical chemistry and Analytical chemistry.

iii) What do you mean by atomic number of an atom?

Give at least two examples.

iii) Give the electronic configuration of the following:

(a) 6C¹²

(b) 11Na²³

iv) Noble gases occupy the last group (viii) in periodic

iv) Noble gases occupy the last group (viii) in periodic table. Why?

v) What is the shielding effect? Does it vary in period?

vi) H₂S is a gas while H₂O is liquid at room. temperature. Why?

vii) What do you understand by Hydrogen bonding?

viii) Diamond is a bad conductor of heat and electricity while graphite is good. Why?

ix). What do you mean by molarity of solution?

x) What are weak and strong electrolytes? Give at least two examples of each.

xi) Write any four uses of sodium.

SECTION - C

Marks: 24

Note: Attempt any 3 questions: Each carry 8 marks.

Q3 (a) What do you understand the term mole and Avogadro's

How many moles of CO2 are present in 60g CO2?

Q4 (a) What is the difference between polar and non-polar bond? Explain your answer with examples.

(b) Describe the bond formation in sodium chloride.

Q5 (a) Explain the types of solids with examples.

(b) Calculate the molarity of 5% by mass of NaOH

Q6 (a) What are oxidizing and reducing agents? Explain your answer with examples.

(b) What do you mean by electro plating? Give its purpose

as well.