CHEMINATE TO COMM

Note: Time allowed for section B was 2 hours and 40 minutes.

SECTION "B"

Marks: 32

- II. Attempt any EIGHT Parts out of the following. Each Part carries equal marks.
 - i. Write the electronic configuration of 10Ne and 14Si (silicon)?
 - ii. Why are the densities of gases lower than that of liquids?
 - iii. Define average atomic Mass? Write its formula.
 - iv. Why NaOH is strong but NH4OH is weak electrolyte?
 - v. Define Modern periodic law? Distinguish between a period and a group in the periodic table.
 - vi. What happens during displacement reaction in halogens?
 - vii. Find out the number of proton, electron and neutron in the following elements.

(a) 11Na (b) 80

H2.+ Cl

viii. Give the reason that why dative bond is al ways polar?

ix. Differentiate between condensation and evaporation?

x. Calculate the molarity of 50.0cm3 of solution containing 7.50g of CH3COH.

wind is the difference between saturated and super saturated solution?

SECTION "C"

Marks: 21

Note: Attempt any THREE questions of the following. Each question carries equal Marks.

III. (a) Define chemistry? Write down the contribution of Ibne-Sina in chemistry.
(b) Write down at least four typical properties of solids?
IV. (a) What are the factors affecting Electronegativity?
(b) How many moles of H₂SO₄ are present in 0.500dm³ of 0.150M H₂SO₄ solution.
V. (a) Draw the structure and shape of sub-shells.
(b) Differentiate between the process of oxidation and reduction. Write an equation to illustrate each.
VI. (a) What is the main distinction between schic and covalent bonding? Explain your answer With suitable examples.
(b) Balance and complete the following equation of Halogens.