Class : XI **Time** : 40 Min
Sub : Chemistry **F.M.** : 20

Section – A (2 X 5 = 10)

1. How many grams of NaOH should be dissolved to make 100 ml of 0.15M NaOH solution?
2. Calculate the mole fraction of ethanol and water in a sample of rectified spirit which contains 46% ethanol by mass (w / w)
3. Calculate the mass percentage of iron and sulphur in $Fe_2(SO_4)_3$
(Atomic mass of Fe =56 u, S= 32u, O= 16u)
4. Calculate the amount of water produced by combustion of 1.6 gram of Methane.
5. Calculate the mass of 1 molecule of CO_2 in gram

. Section - B (5×2=10)

6. How many atoms and molecules are present in 64 gram of sulphur (S_8)?
7. A Compound contains 4.07% hydrogen, 24.27% carbon and 71.65% chlorine. Find its molecular formula.