ASSIGNMENT X CARBON AND ITS COMPOUNDS

1 **WHY does carbon form covalent bond?**
2 **Define covalent bond and its types with examples.**
3 **Give 4 reasons for large numbers of compounds of carbon.**
4 **Define functional group , homologous series, isomerism, & catenation.**
5 **Draw the isomers of butane & pentane.**
6 **Identify the functional group, give IUPAC name , & draw structure of the given compounds. CH_3CH_2OH , HCHO, CH_3COOH, CH_3CH_2Br, C_6H_{12}, C_5H_{12}, CH_3COCH_3.**
7 **Name the fourth member of seroes having general formula C_nH_{2n}**
8 **Write 3 charactertistics of homologous series.**
9 **Differentiate between the allotropes of carbon.**
10 **(a) Calculate the difference in the molecular formula for (i) CH_3OH & C_2H_5OH (ii) C_2H_5OH & C_3H_7OH (iii) C_3H_7OH & C_4H_9OH**
(b) Is there any similarities between these series.
(c)Arrange in increasing order with name.