

Assignment 1

10. Choosing only words from the following list, write down appropriate words to fill in the blanks from (a) to (e) given below. [Addition, carbohydrates, C_nH_{2n-2} , C_nH_{2n} , C_nH_{2n+2} , electrochemical, homologous, hydrocarbon, saturated, substitution, unsaturated].

The alkanes form an (a) series with the general formula (b) The alkanes are (c) (d) which generally undergo (e) reactions.

11. Draw the structural formula of a compound with two carbon atoms in each of the following cases.

- An alkane with a carbon to carbon single bond,
- An alcohol containing two carbon atoms,
- An unsaturated hydrocarbon with a carbon to carbon triple bond.

12. [Ethane, Ethene, Ethanoic acid, Ethyne, Ethanol]

From the above list name

- The compound with $-OH$ as the part of its structure.
- The compound with $-COOH$ as the part of its structure.
- Homologue of Homologous series with general formula C_nH_{2n} .

7. Name the following:
- Organic compounds with same molecular formula but different structural formula. [pg.223]
 - Group of organic compounds where the successive members follow a regular structural pattern, successive compounds differ by a 'CH₂' group. [pg.221]
8. Arrange the following, according to the instruction given in bracket:
 C_2H_2 , C_3H_6 , CH_4 , C_2H_4 [in the increasing order of the molecular weight]. [pg.221]