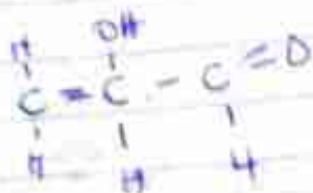


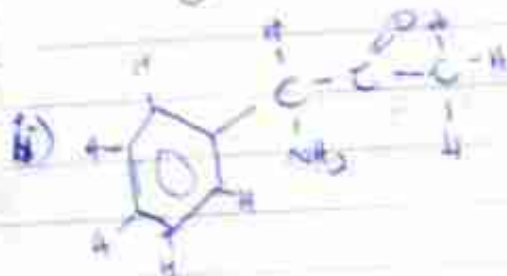
Sandy Oknyakobasi Uganda
 14/11/2019/395
 MBBS

i) Names of the functional group in the following molecules



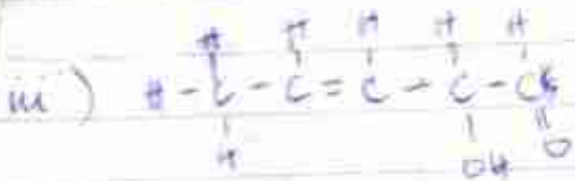
Functional Group Found in i above

- a) alkene
- b) Alcohol
- c) Aldehyde



Functional Groups found in ii above

- a) benz benzyl (aromatic)
- b) Amine
- c) Ketone



Functional Group found in iii above

- a) alkene
- b) alcohol
- c) aldehyde

$$2) \text{ Concentration in g/cm}^3 = \frac{0.856 \text{ g}}{10 \text{ cm}^3} = 0.0856 \text{ g/cm}^3$$

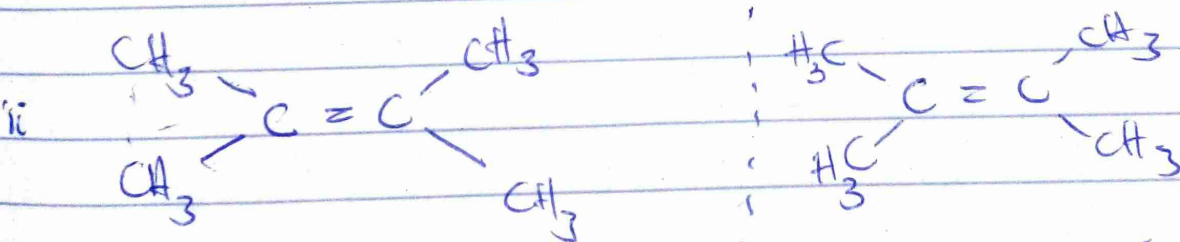
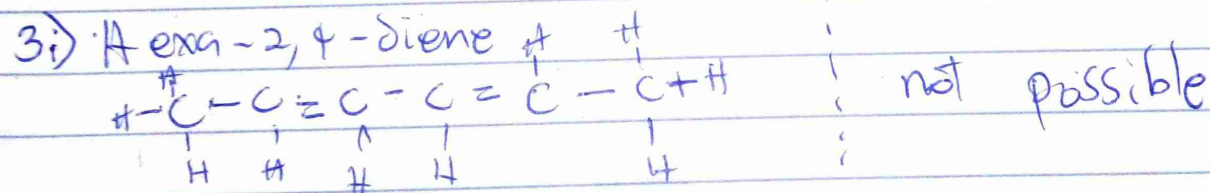
Path length of sample cell in dm = 1 dm

$$\text{Observed rotation} = +1.0$$

$$\text{Specific rotation} = \frac{\text{Observed rotation}}{\text{Conc in g/cm}^3 \times \text{path length of sample cell in dm}}$$

$$\text{Specific rotation} = \frac{1}{0.0856 \times 1}$$

$$\text{Specific rotation} = 11.68 \text{ g}^{-1} \text{ cm}^3 \text{ dm}^{-1}$$



cis-Dimethylbut-2-ene

trans-Dimethylbut-2-ene