

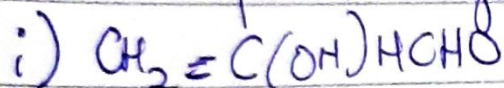
NAME: ALAKHUME OTHNIEL ESEHOMMO



DATE: / /

MO TU WE TH FR SA SU

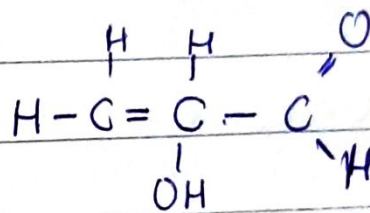
1) Name functional groups present



\Rightarrow Alkene (Double bond)

\Rightarrow Hydroxyl group (OH)

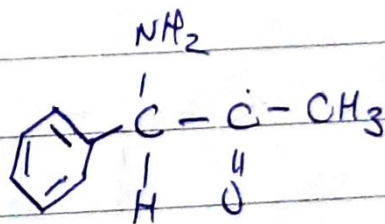
\Rightarrow Alkanol ($\text{C}=\text{OH}$)



\Rightarrow Phenyl group (C_6H_5) with double bond

\Rightarrow Amine

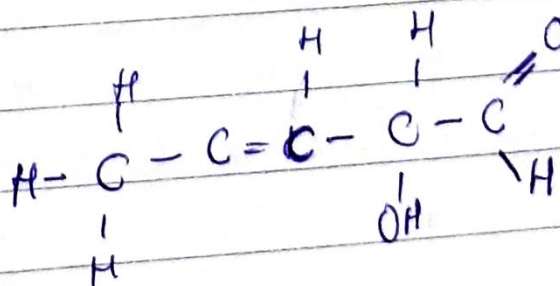
\Rightarrow Alkaneone ($\text{C}=\text{O}$)



\Rightarrow Alkene (Double bond)

\Rightarrow Hydroxyl group (OH)

\Rightarrow Alkanol ($\text{C}=\text{OH}$)



~~$[\alpha]_D^{25} = \frac{\alpha}{l \times c}$~~

~~(3)~~

$$2) [\alpha]_{\lambda}^T = \frac{\alpha}{l \times c}$$

where α = observed rotation = $+1.0^\circ$

l = length of sample tube = 1 dm

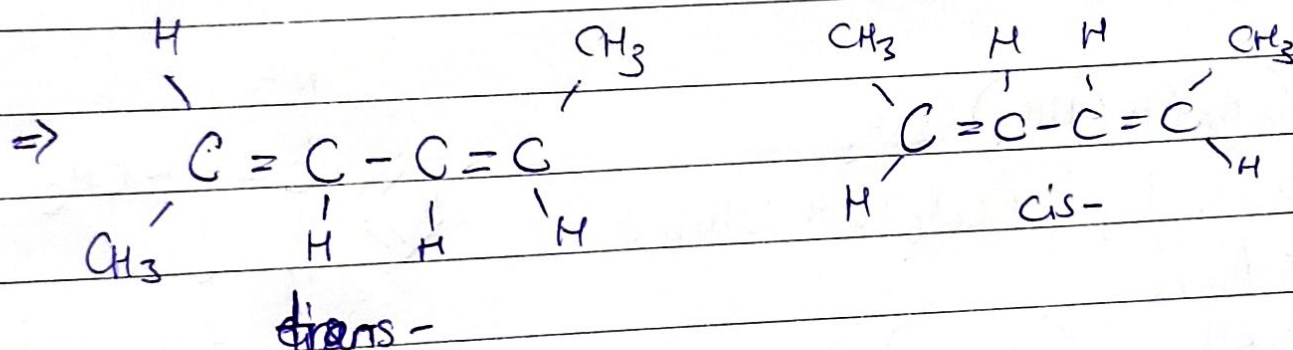
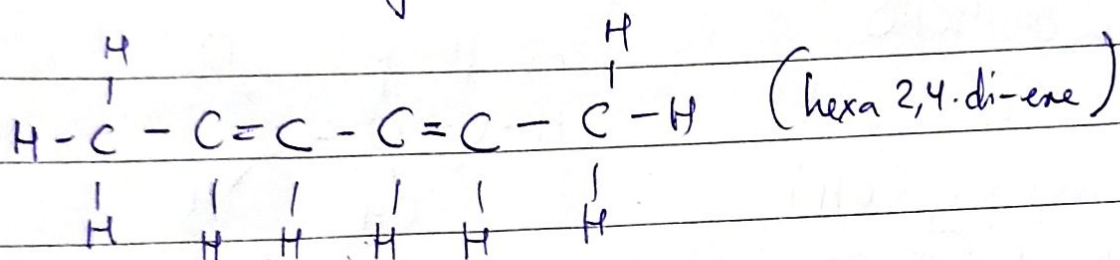
c = concentration = $\frac{\text{mass}}{\text{volume}} = \frac{0.856 \text{ g}}{10 \text{ cm}^3} = 0.0856 \text{ g/cm}^3$



DATE: / /

MO TU WE TH FR SA SU

3) i) Geometric isomers of hexa 2,4-diene



ii) Geometric isomers of 2,3 dimethyl but-2-ene

