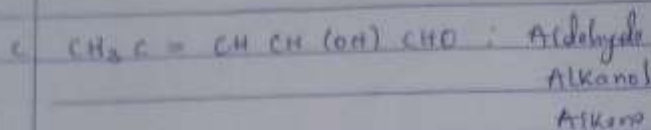
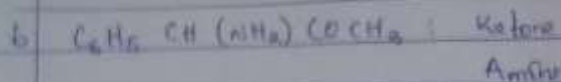
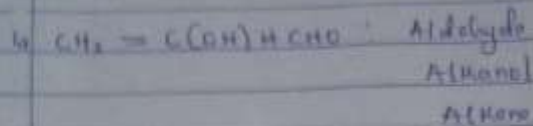


CHEMISTRY 102

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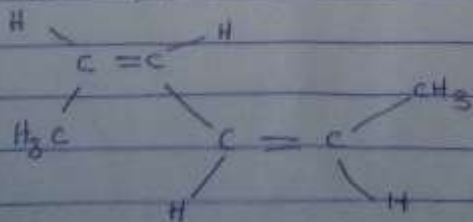


2 Specific rotation = $\frac{\text{Observed rotation (degrees)}}{(\text{Concentration } \text{g cm}^{-3}) \times (\text{Path length of sample cell in dm})}$

Conc (in g cm^{-3}) = $\frac{0.856\text{g}}{10\text{cm}^3}$
 In $1\text{cm}^3 = 0.0856\text{g}$
 = +1
 $0.0856\text{g cm}^{-3} \times 1\text{dm}$
 = $+11.68^\circ \text{g}^{-1} \text{cm}^3 \text{dm}^{-1}$

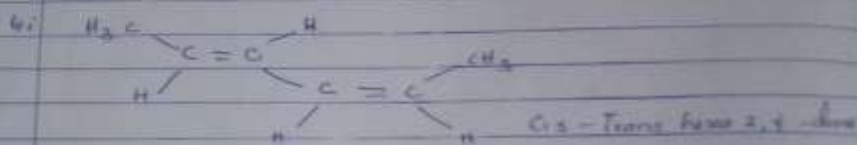
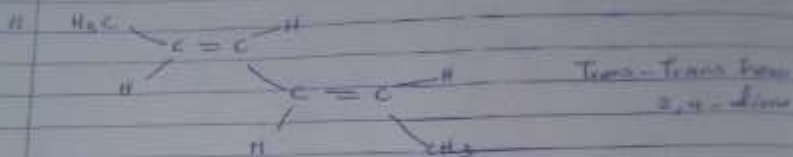
B Possible geometric isomers for

a Hexa-2,4-diene

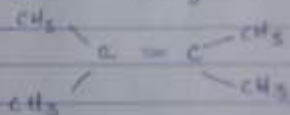


Cis-cis hexa-2,4-diene

6. $2,3$ -Dimethylbut-2-ene



6. $2,2$ -Dimethylbut-2-ene



It cannot form geometric isomers because each double bonded carbon has identical groups.