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 Mechanical Engineering  
 CHEM 102  
 19/ENG 05/052

① a) Carbonyl group (Aldehyde) group (CHO)

② Hydroxyl group (OH)

③ Alkene group (double bond)

ii) a) Keto group (Carbonyl group)  $\text{C}=\text{O}$

② Amine group (NH<sub>2</sub>)

③ Phenyl group

iii) a) Aldehyde group

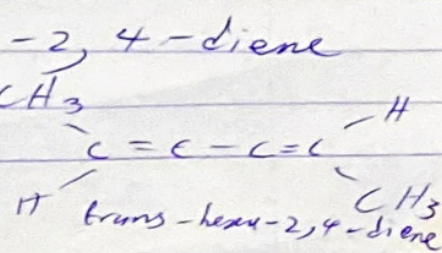
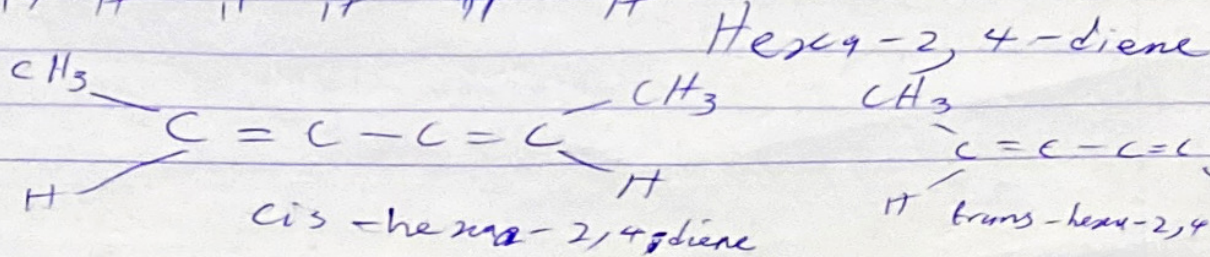
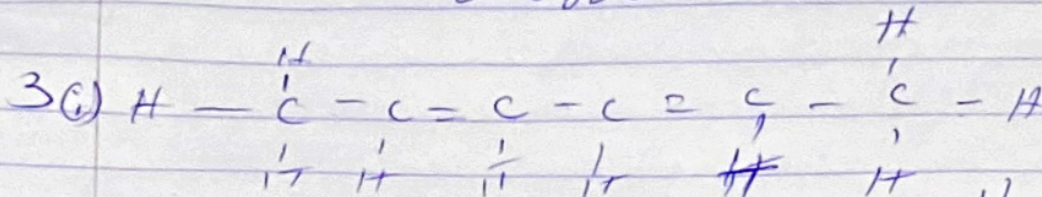
② Hydroxyl group

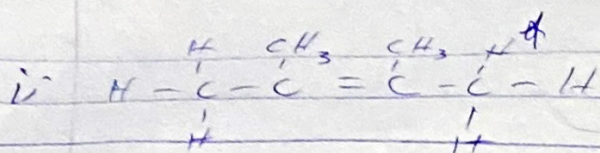
③ double bond (Alkene group)

$$2. [\alpha]_D^{25} = \frac{\alpha}{c \cdot l}; \alpha = +1.0^\circ$$

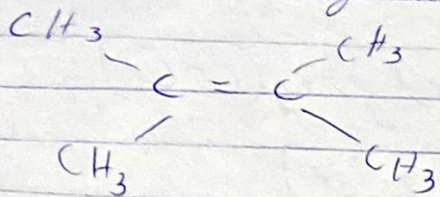
$$c = \frac{0.856}{10} = 0.0856 \text{ g/cm}^3$$

$$= \frac{+1.0}{0.0856} = \underline{\underline{11.68^\circ}}$$





2,3-dimethylbut-2-ene



No geometric isomer