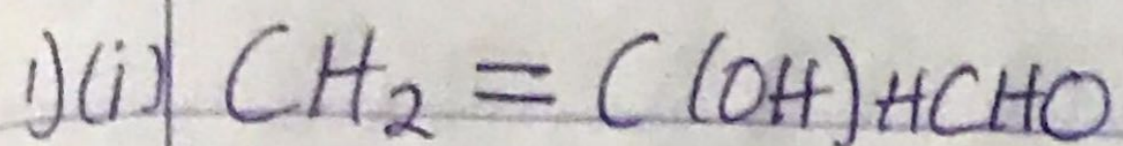


TADESE VICTOR ADEDAMOLA

ELECT/ELECT ENGINEERING

19/ENG04/055

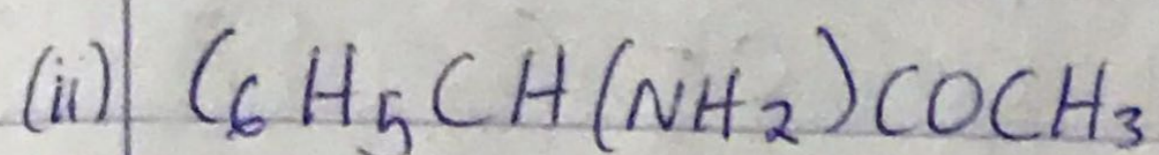
CHM 102 ASSIGNMENT



($\text{C} = \text{C}$) - Carbon = Carbon double bond

($-\text{OH}$) - Hydroxyl group (Alkanol)

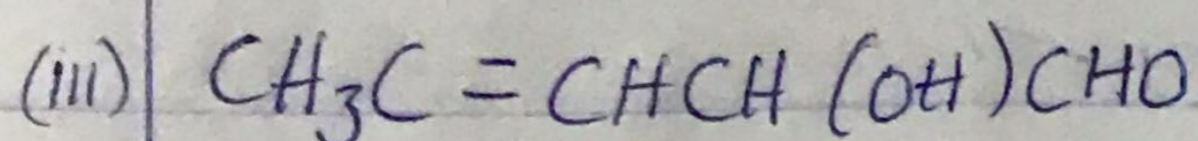
($-\text{CHO}$) - Carbonyl group (Alkanal)



(C_6H_5) - Phenyl group

($-\text{NH}_2$) - Amine group

($-\text{C} = \text{O}$) - Carbonyl group (Alkanone)



($\text{C} = \text{C}$) - Carbon = Carbon double bond

($-\text{OH}$) - Hydroxyl group (Alkanol)

($-\text{CHO}$) - Carbonyl group (Alkanal)

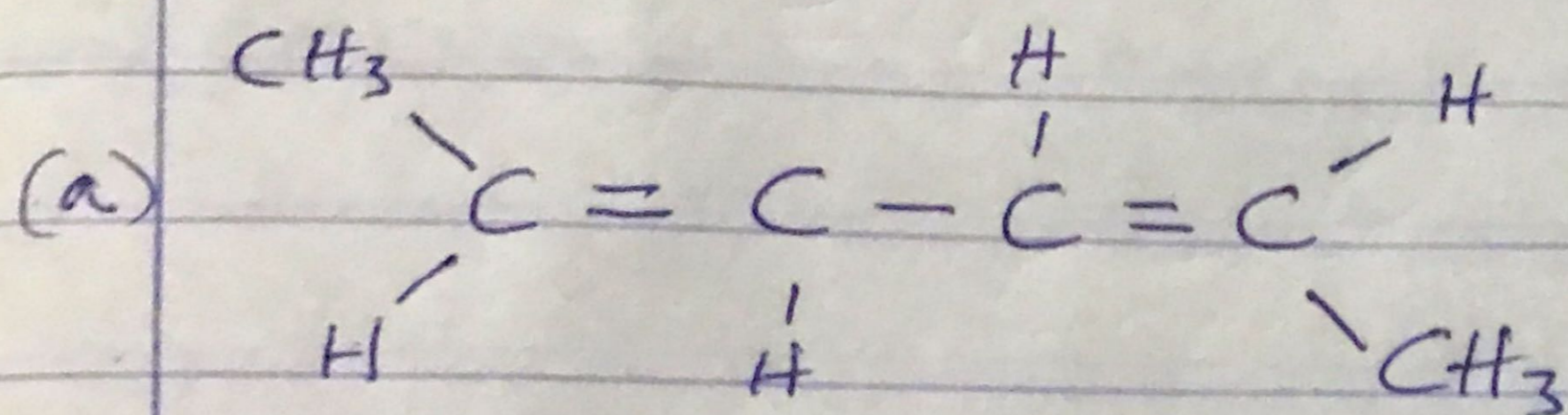
2) Concentration = $\frac{0.856\text{g}}{10\text{cm}^3} = 0.0856\text{g/cm}^3$

Specific rotation = $\frac{\text{observed rotation } (^\circ)}{\text{concentration } (\text{g/cm}^3) \times \text{path length of sample cell (dm)}}$

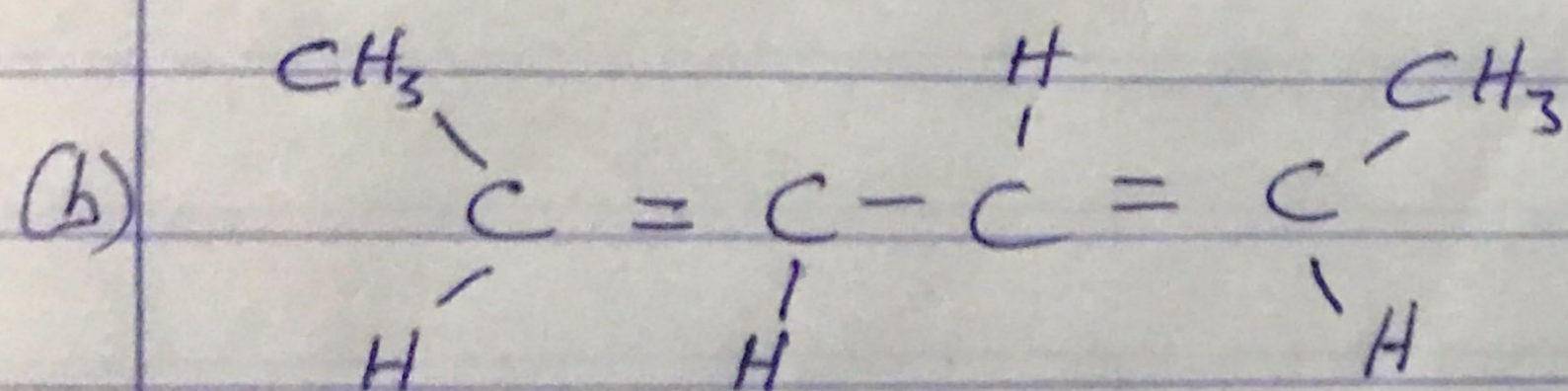
= $\frac{+1.0^\circ}{0.0856 \times 1}$

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

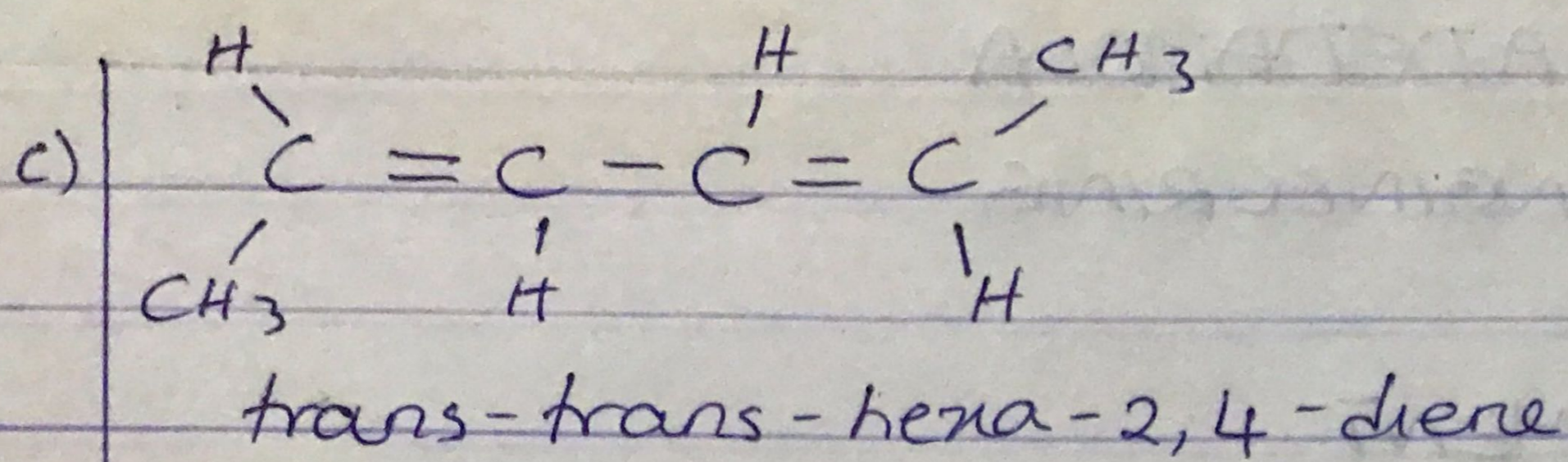
3) (1) Hexa-2,4-diene



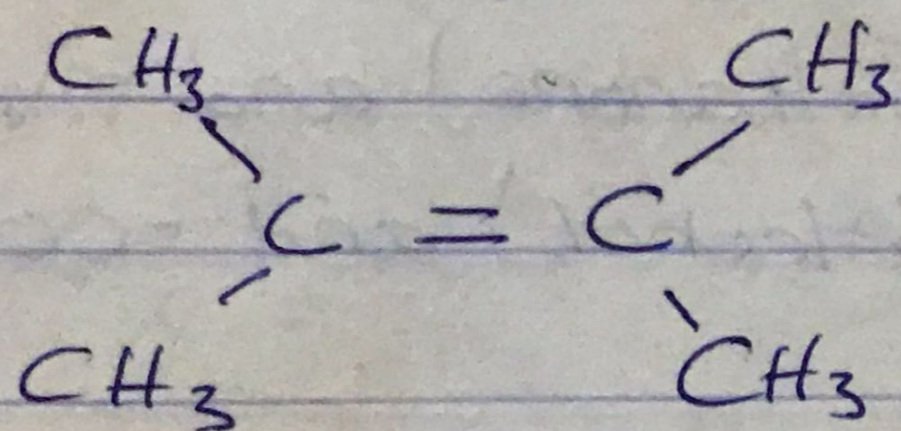
Cis-Cis-Hexa-2,4-diene



Cis-trans-Hexa-2,4-diene



(ii) 2,3-Dimethylbut-2-ene



There are no geometric isomers for ~~the~~ 2,3-dimethylbut-2-ene