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DEPARTMENT: NURSING

MATRIC NO: 19/MHS 02/111

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COLLEGE: M.H.S  
COURSE: ~~PHM~~ 102  
TITLE: STEREOCHEMISTRY AND FUNCTIONAL GROUP

NO 1

i)  $\text{CH}_2 = \text{C}(\text{OH})\text{HCHO}$   
functional group  
Double bond Alkene  
Hydroxyl group (OH)  
Aldehydes / Alkanal ( $\text{C}^{\ominus}\text{-H}$ )

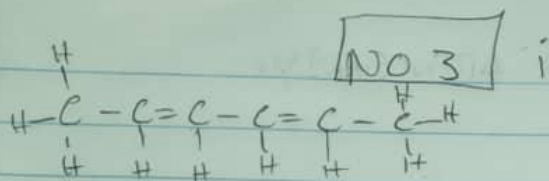
ii)  $\text{C}_6\text{H}_5\text{CH}(\text{NH}_2)\text{COCH}_3$   
functional group  
Aromatic group (Phenyl group)  
Amine ( $\text{NH}_2$ )  
Alkaneone / Ketone ( $\text{C}^{\ominus}\text{-R}$ )

iii)  $\text{CH}_3\text{C} = \text{CHCH}(\text{OH})\text{CHO}$   
functional group  
Alkene ( $\text{C} = \text{C}$ ) Double bond  
Hydroxyl group (OH)  
Alkanal  $\text{C}^{\ominus}\text{-H}$  or Aldehydes

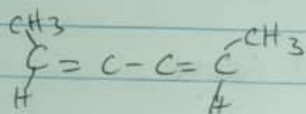
NO 2

$$\text{concentration (Mol dm}^{-3}) = \frac{\text{conc. (g/dm}^3)}{\text{Molar mass (g/mol)}}$$

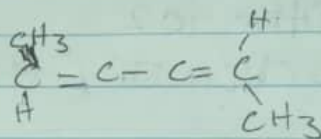
$$[\alpha]_{\lambda}^T = \frac{\alpha}{c \cdot l} ; \alpha = +1.0^{\circ} = c = \frac{0.856}{10} = 0.0856 \text{ g/g}$$
$$= \frac{+1.0}{0.0856} = 11.68^{\circ}$$



Hexa-2,4 diene

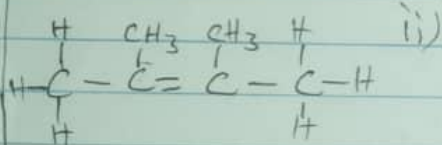


Cis-~~Hexa~~ 2,4 diene

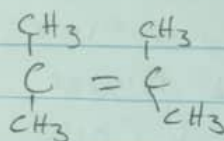


TRANS-~~Hex~~

ii



2,3-dimethylbut-2-ene



No geometric isomer