NAME; ONOJI OGHENEYOMA EMMANUEL
COURSE GENERAL CHEMISTRY II
MATRIC NO; 19/ENG02/053
DEPARTMENT; COMPUTER ENGINEERING.

(1) (i) $CH_2=C(OH)HCHO$ = ~~Alcohol~~ Hydroxy, Aldehyde and Alkene
(ii) $C_6H_5CH(NH_2)COCH_3$ = Amine, Phenyl group, Alkanone
(iii) $CH_3C=CHCH(OH)CHO$ = Hydroxy, alkanal, alkene

(2.) $$[\alpha]^T_\lambda = \frac{\alpha}{C \cdot l}$$

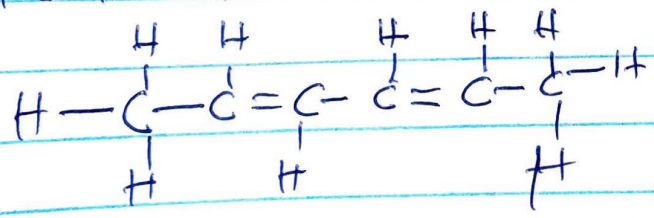
l = Length of sample tube

$C = \frac{mass}{Volume}$ (g/dm) or (g/mol)

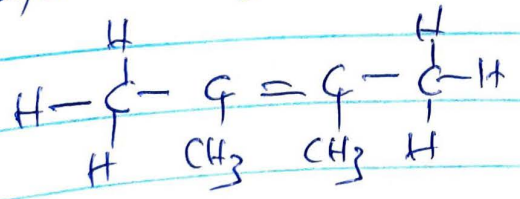
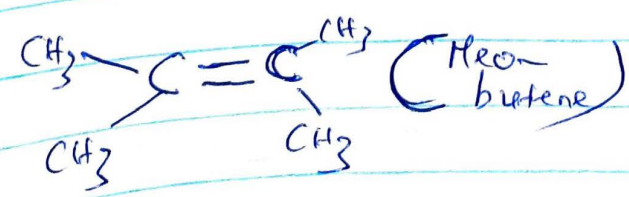
α = Observed rotation

$$S_r = \frac{10}{1.0 \times \left(\frac{0.856}{10}\right)} = \frac{1}{0.0856} = 11.68^\circ$$

(3) Hexa-2-4 diene



(ii) 2,3-Dimethyl but-2-ene.



or