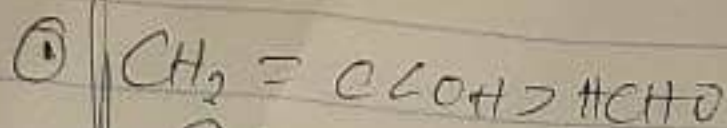


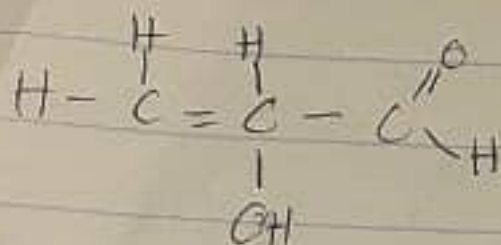
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 COURSE: CHEM 109  
 MATRIC NO: 19/MH501/204

COURSE: CHEM 109

DATE: 16/05/2020

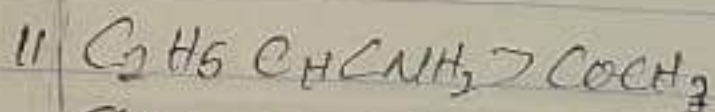


Structural formulae

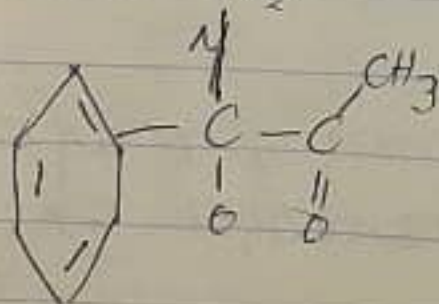


Functional present are.

- Double bond chain =  $\langle \text{Alkene} \rangle$
- OH  $\langle \text{hydroxyl group} \rangle$
- $\text{C} \begin{array}{l} // \\ \backslash \end{array} \text{H} \langle \text{aldehyde} \rangle$

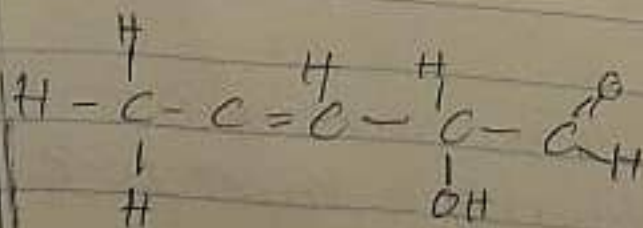
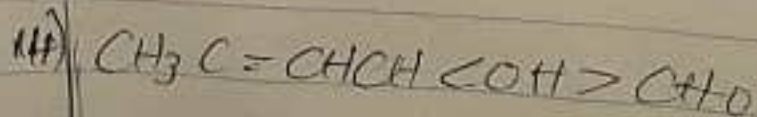


Structure  $\text{NH}_2$



Functional present

- Amine
- ~~Rac~~ Alcohol / Ketone  $\begin{array}{l} \text{IR} \\ // \\ \text{O} \end{array}$



functional present  
 Alkene  $\langle \text{C} = \text{C} \rangle$

Hydroxyl group  $\langle \text{OH} \rangle$   
 Alcohol  $\langle \text{C}^{\text{OH}} \rangle$

2) Recall

$$[\alpha] = \frac{\alpha}{lc}$$

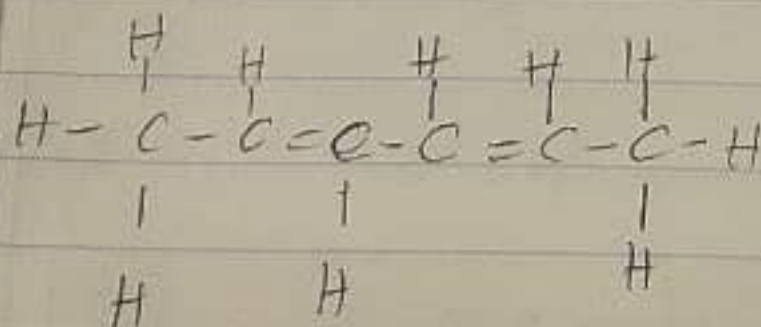
where  $l$  = length of sample pure  
 $c$  = mass / volume or g/mol  
 $\alpha$  = observed rotation

$$S_r = \frac{1.0}{1.0 \times \left( \frac{0.856}{10} \right)}$$

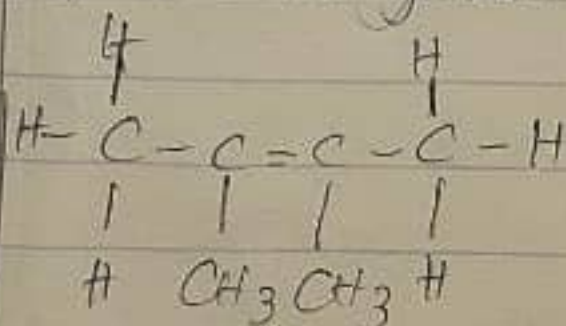
$$S_r = 1 = \frac{11.68}{0.0856}$$

3) 0

Hexa-2,4 diene



2,3 dimethyl but-2-ene



or

