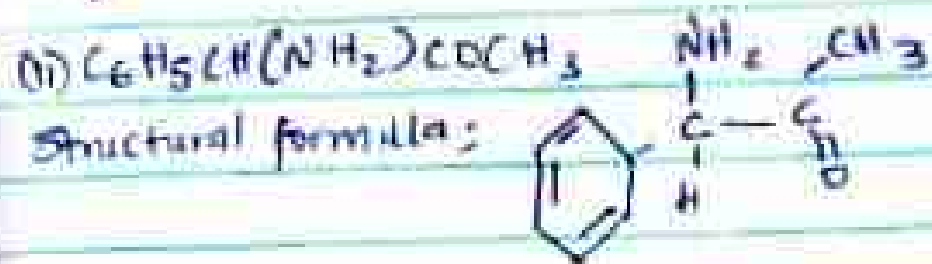
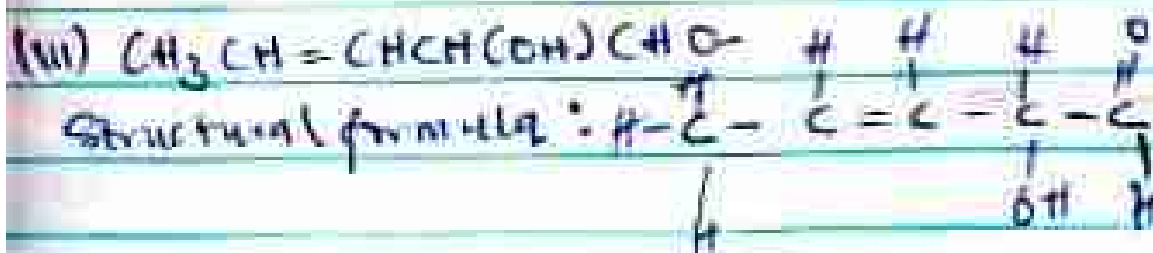


- functional group present are
- Double bond chain (alkene)
 - OH (Hydroxyl group)
 - $\overset{\text{O}}{\parallel} \text{C}-\text{H}$ (Alkanol)



- functional group present are:
- Phenyl group (C_6H_5) with double bonds.
 - Amine Amide
 - Alkaneone/ketone ($\overset{\text{O}}{\parallel} \text{C}-\text{R}$)



functional group present

- Alkene (C=C)
- Hydroxyl group (OH)
- Alkane (C₄H₁₀)

2) Recall: $(n)_D^{20} = \frac{n}{173}$

where

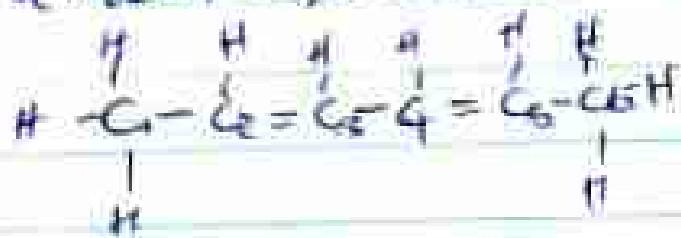
l = length of sample
 C = $\frac{\text{mass (gram)}}{\text{volume}}$ or g/mol.

n = observed rotation

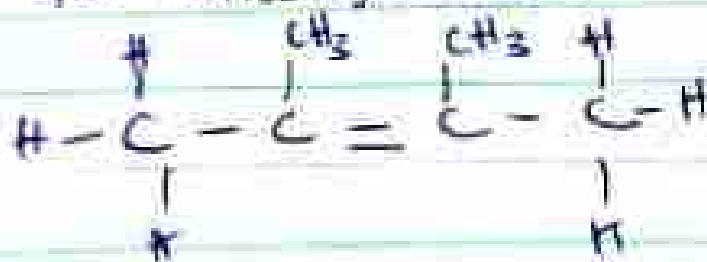
$$S_r = \frac{1.0}{1.0 \times \left(\frac{0.550}{10} \right)}$$

$$S_r = \frac{1}{0.0550} = 11.68$$

3(i) Hex-2,4-diene.



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



Oluwole-ojo Oluwagbemi

19/MH501/342