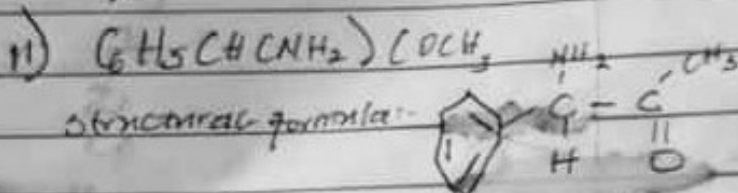


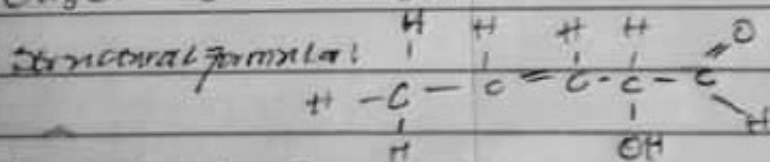
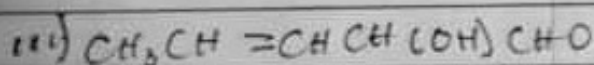
Functional group present are:

- Double bond chain (Alkene)
- OH Hydroxyl group
- $C=O$ (Alkanol)



Functional group present are:

- Phenyl group (C_6H_5) and double bonds
- Amine
- Alkanone / Ketone ($C=O$)



Functional group present:

- Alkene ($C=C$)
- Hydroxyl group (OH)
- Alkanol ($C=O$)

2) Recall,

$$[\alpha]_D^T = \frac{\alpha}{l \times c}$$

where l = length of sample

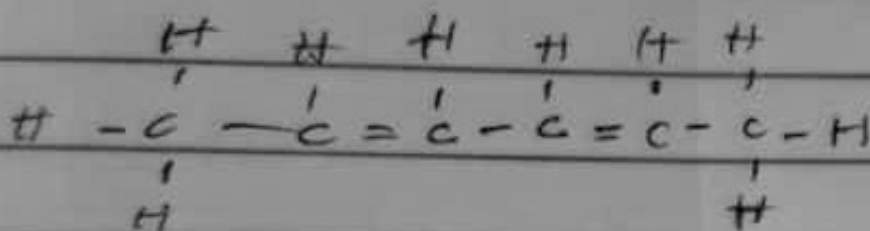
$$c = \frac{\text{mass}}{\text{volume}} \quad \left(\frac{g}{dm^3} \right) \text{ or } \left(\frac{g}{mol} \right)$$

α = observed rotation

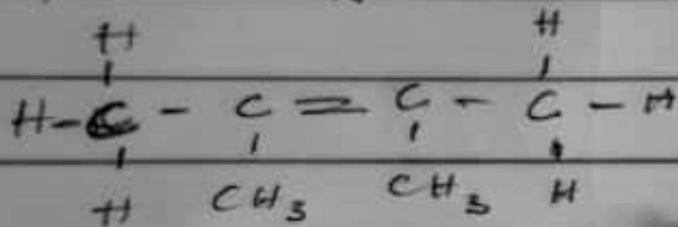
$$S_r = \frac{1-D}{1.0 \times \left(\frac{0.856}{10} \right)}$$

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

3.ii) Hexa-2,4-diene



ii) 2,3-Dimethylbut-2-ene



OR

