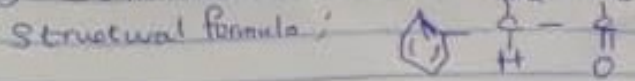
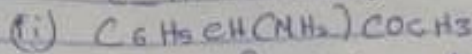


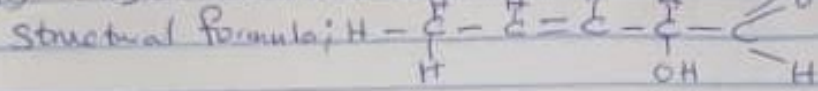
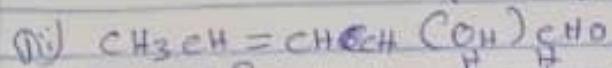
Functional group Present are:

- Double bond chain (Alkene)
- OH (hydroxyl group)
- $\overset{\text{O}}{\parallel}$  (Alkanal)



Functional group Present are:

- Phenyl group ( $\text{C}_6\text{H}_5$ ) with double bonds
- Amide
- Alkanone / Ketone ( $\overset{\text{O}}{\parallel} - \text{R}$ )



Functional group Present

- Alkene ( $\text{C} = \text{C}$ )
- hydroxyl group (OH)
- Alkanal ( $\overset{\text{O}}{\parallel} - \text{H}$ )

2. Recall;

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

where

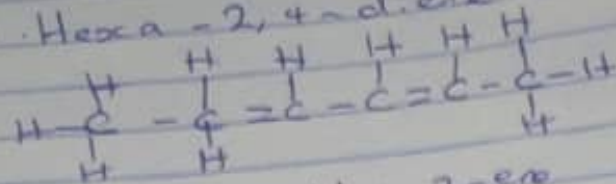
$l$  = length of sample

$c$  = mass/volume (g/dm<sup>3</sup>) or (g/ml)

$\alpha$  = observed rotation

$$S_r = \frac{1.0}{1.0 \times \left(\frac{0.56}{10}\right)} = \frac{1}{0.056} = 11.68$$

30) Hexa-2,4-diene



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

