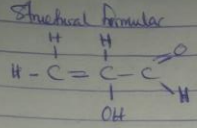
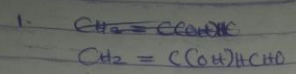
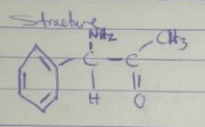
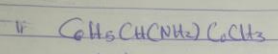


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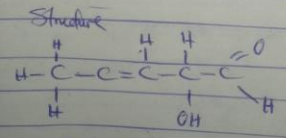
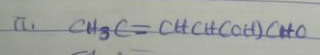
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CHEM 102



Functional group present are:
 - Double bond chain = Alkene
 - $-OH$ Hydroxyl group
 - $\begin{array}{c} O \\ || \\ C \\ | \\ H \end{array}$ Aldehyde



Functional group present
 - Aromatic Phenyl group (C_6H_5) with double bonds
 - Amine
 - Alkaneol/Ketone ($\begin{array}{c} C - R \\ || \\ O \end{array}$)



Functional group present
 - Alkyne ($C \equiv C$)
 - Hydroxyl group ($-OH$)
 - Aldehyde ($\begin{array}{c} C = O \\ | \\ H \end{array}$)

$$[\alpha]_D^{25} = \frac{\alpha}{l \times c}$$

where
 l = length of sample

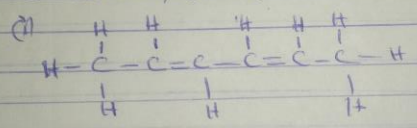
$$c = \frac{\text{mass}}{\text{volume}} \text{ (g/dm}^3\text{) or (g/mol)}$$

α = observed rotation

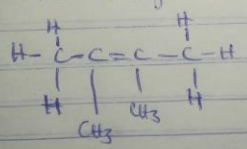
$$S_r = \frac{1.0}{1.0 \times \left(\frac{0.256}{10}\right)}$$

$$S_r = \frac{1}{0.0256} = 11.68$$

3 Hexa-2,4-diene



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



or

