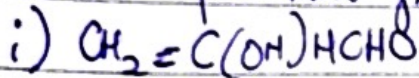
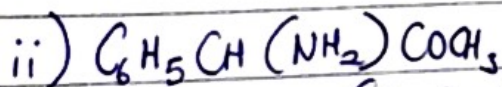
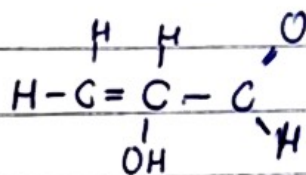
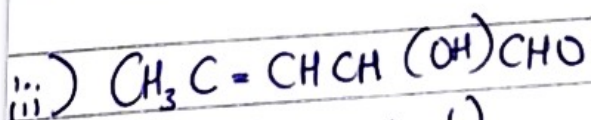
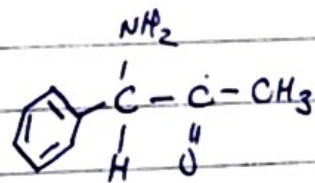
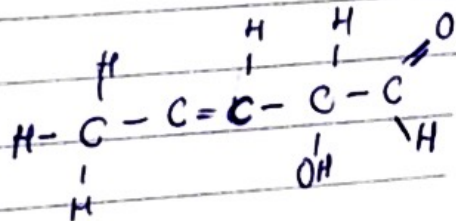


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1) Name functional groups present

 $\Rightarrow$  Alkene (Double bond) $\Rightarrow$  Hydroxyl group (OH) $\Rightarrow$  Alkanol (C=O~~H~~) $\Rightarrow$  Phenyl group ( $\text{C}_6\text{H}_5$ ) with double bond $\Rightarrow$  Amine $\Rightarrow$  Alkaneone (C=O) $\Rightarrow$  Alkene (Double bond) $\Rightarrow$  Hydroxyl group (OH) $\Rightarrow$  Alkanol (C=O)

$$2) [\alpha]_{\lambda}^T = \frac{\alpha}{l \times C}$$

where  $\alpha$  = observed rotation =  $+1.0^\circ$

$l$  = length of sample tube =  $1 \text{ dm}$

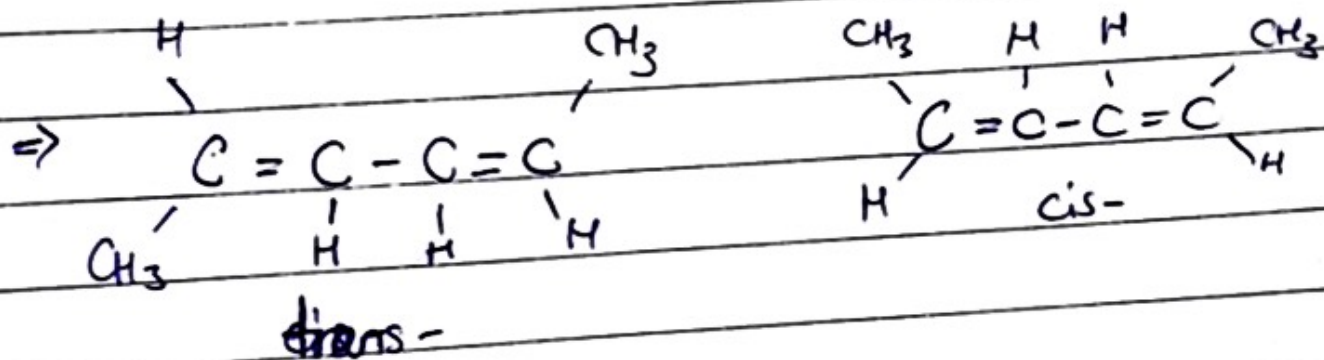
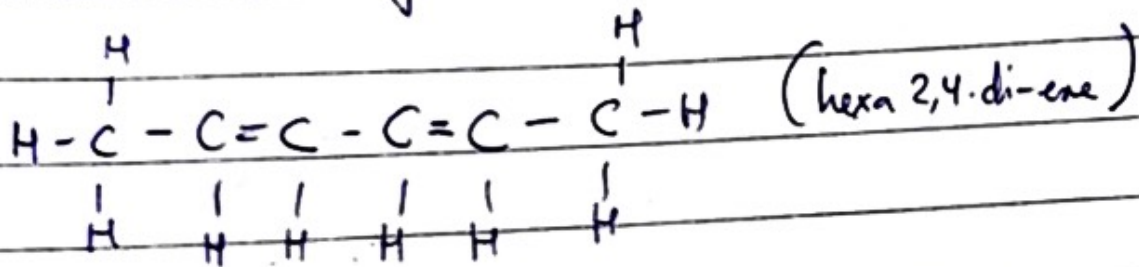
$C$  = concentration =  $\frac{\text{mass}}{\text{volume}} = \frac{0.856 \text{ g}}{10 \text{ cm}^3} = 0.0856 \text{ g/cm}^3$



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8) i) Geometric isomers of hexa 2,4-diene



ii) Geometric isomers of 2,3 dimethyl but-2-ene

