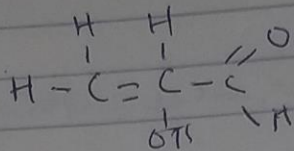
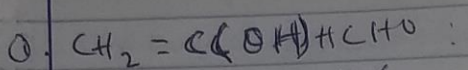


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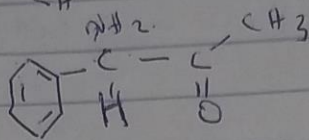
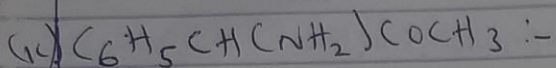
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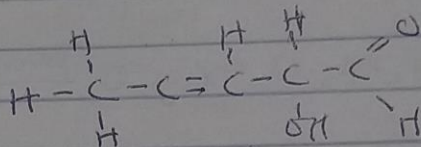
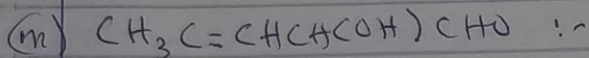


Structural formula :-

Functional groups present - double bond chain (Alkene), -OH (hydroxyl group), alkanol.



Functional groups present :- phenyl group (C_6H_5) with double bonds, Amine, ketone ($\text{C}=\text{O}$)



Functional groups present :- Alkene ($\text{C}=\text{C}$), hydroxyl group (OH), alkanol ($\text{C}=\text{O}$)

② Recall: $[\alpha]_D^T = \frac{\alpha}{l \times c}$

where l = length of sample tube, c = mass/vol (g/cm^3) or (g/ml)

α = observed rotation

$$S_D = \frac{1.0}{1.0 \times \left(\frac{0.856}{10}\right)}$$

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

