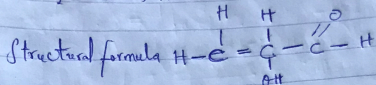
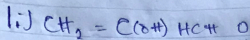


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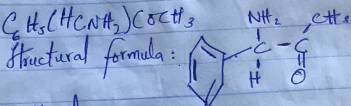
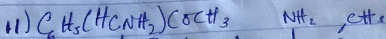
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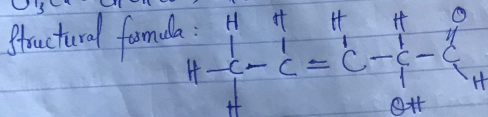
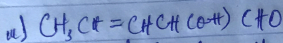
Functional Group present are:

- Double bond chain (Alkene)
- $\text{OH}$  (Hydroxyl group)
- $\text{C}$  (Alkanol)



Functional group present are

- Phenyl group ( $\text{C}_6\text{H}_5$ ) and double bonds
- Amine
- Alkanone / ketone ( $\text{C}=\text{O}$ )



Functional group present

- Alkene ( $\text{C}=\text{C}$ )
- Hydroxyl group ( $\text{OH}$ )
- Alkanal ( $\text{C}=\text{O}$ )

2) Recall,

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

where  $l$  = length of sample

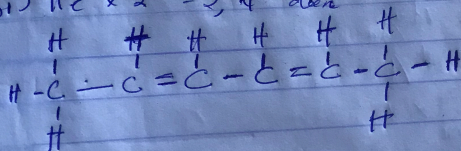
$$c = \frac{\text{mass}}{\text{Volume}} \quad (\text{g/dm}^3)$$

$\alpha$  = observed rotation

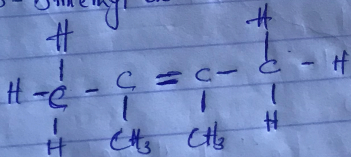
$$[\alpha]_D = \frac{\alpha \cdot 100}{l \cdot c}$$

$$[\alpha]_D = \frac{1}{0.0856} = 11.68$$

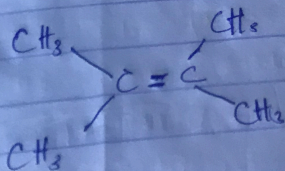
3i)  $\text{H}_2\text{C} \times 2$  - 2, 4 - dene



ii) 2,3-Dimethyl but-2-ene



OR



(Neobutane)