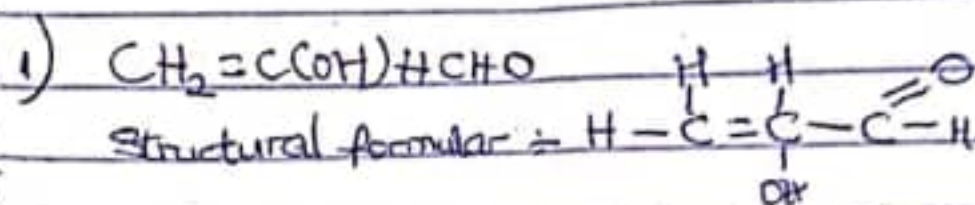


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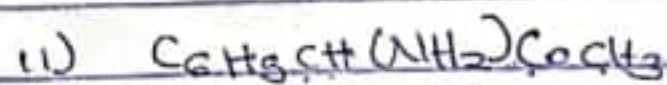


functional groups present are:

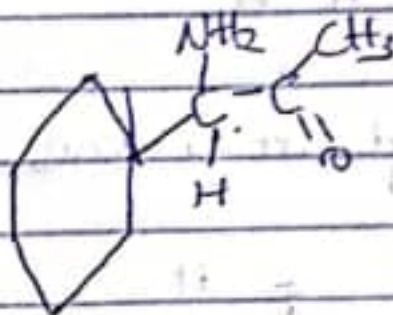
- Double bond chain = (Alkene)

- OH (hydroxyl group)

- $C=O$ (Aldehyde)



Structural formula:

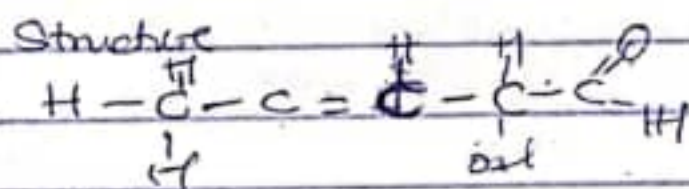
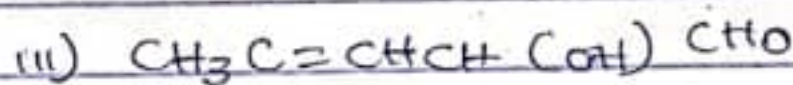


functional group

-> Amine

-> Alkanone / Ketone ($C=O$)

-> Phenyl group C_6H_5 with double bond.



functional:

-> Alkene

-> Hydroxyl group (OH)

-> Alkanol ($C-OH$)

2) Recall;

$$[\alpha]_D^{25} = \frac{\alpha}{l \times c} \quad \text{where } l = \text{length of the sample}$$

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

α = observed rotation

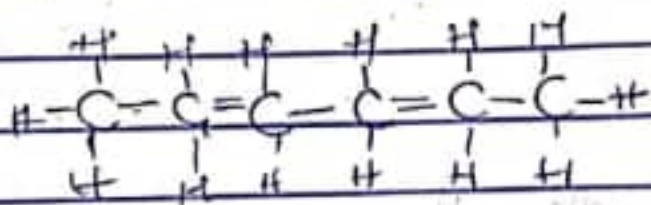
19/MH501/297.

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

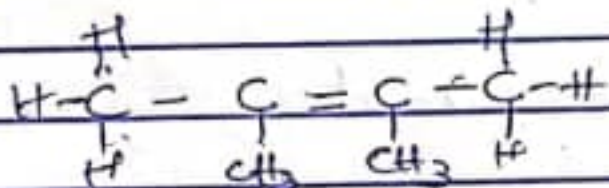
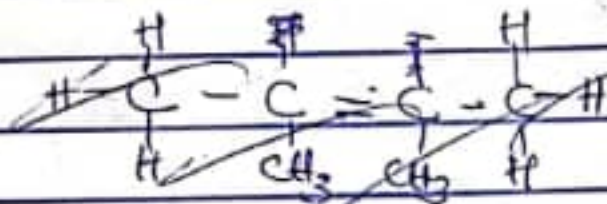
$$Sr = \frac{1}{0.0856}$$

$$Sr = 11.68$$

Q) i) Hexa-2,4-diene



ii) 2,3-Dimethylbut-2-ene



iii)