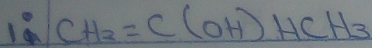


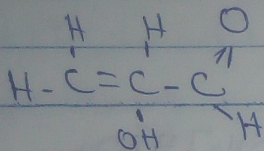
MBBS

19/MHS01/212.

Assignment.

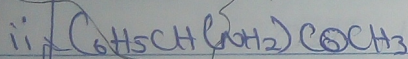


Structural Formula

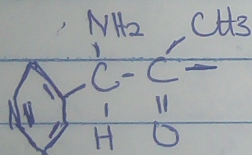


Functional present are :-

- Double bond chain (alkene)
- $-\text{C}(=\text{O})-\text{H}$ - alkanol
- $-\text{OH}$ - hydroxyl group



Structure :-



Functional group present :-

Phenyl group (C_6H_5).

Amine

Alkanone/ketone ($\text{C}=\text{O}$)

2) Recall that

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

l = length of sample found

$$c = \frac{\text{mass}}{\text{volume}} = \frac{g}{dm^3}$$

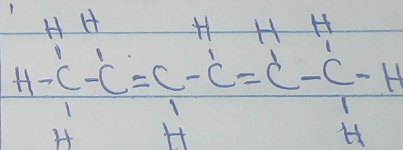
α = observed rotation

$$S_D = \frac{\Delta_D}{100}$$

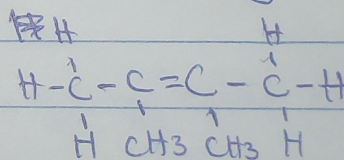
$$1 \times (0.853/10)$$

$$S_D = 1/0.0853 = \underline{\underline{11.68}}$$

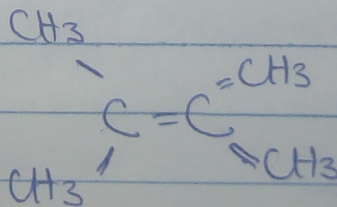
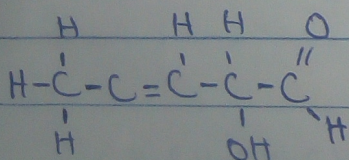
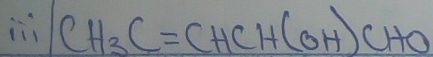
3) i) Hexa-2,4 diene



ii) 2,3-Dimethylbut-2-ene



OR



Functional group present

Alkene ($C=C$)

Hydroxyl group (OH)

Alkanol ($C-\text{H}$)