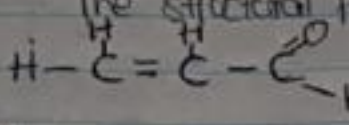
Aroku Mukumba Kyomnom
19/MHS11/035
Pharmacy CHM102

1) i) $CH_2=C(OH)HCHO$

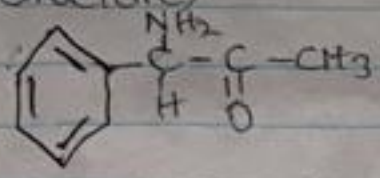
The structural formula



Functional present are
- Double bond chain (Alkene)
- OH (hydroxyl group)
- $C(=O)-H$ (Alkanol)

ii) $C_6H_5CH(NH_2)C_6CH_3$

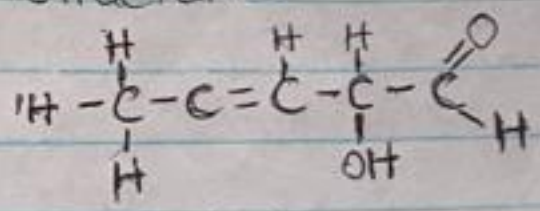
Structure



Functional present
- phenyl group (C_6H_6) with double bonds
- Amine
- Alkanone/ketone ($C(=O)-R$)

iii) $CH_3C=CHCH(OH)CHO$

Structure



Functional present
- Alkene ($C=C$)
- Hydroxyl group (OH)
- Alkanol ($C(=O)-H$)

L = length of simple tube
C = $\frac{\text{mass}}{\text{volume}}$ (g/dm) or (g/ml)

α = observed rotation

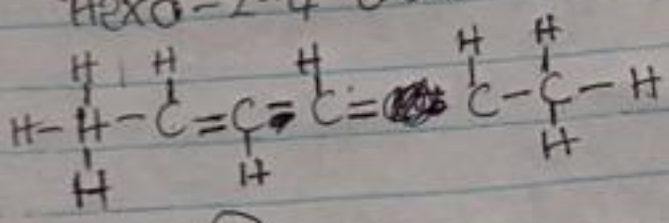
$Sr = \frac{1.0}{1.0 \times (\frac{0.856}{10})}$

$Sr = \frac{1}{0.0856} = 11.689$

(3)

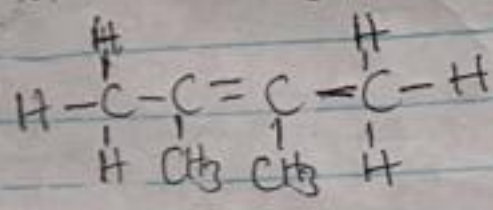
(i)

Hexa-2-4 diene



(ii)

2,3-Dimethyl but-2-ene



(2)

Recall;

$$[\alpha]^T_\lambda = \frac{\alpha}{l \times C}$$

where,