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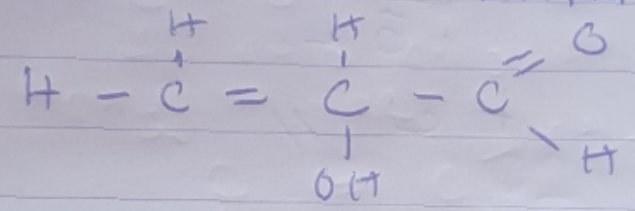
MATRIC NO :- 19/ENG02/005
DEPARTMENT :- COMPUTER ENGINEERING

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

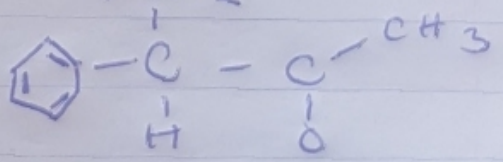
The structural formular



functional groups present are ;
- Double bond chain = (Alkene)
- OH (hydroxyl group.)
- $C(=O)H$ (alkanol)

(ii) $C_6H_5CH(NH_2)C_5CH_3$

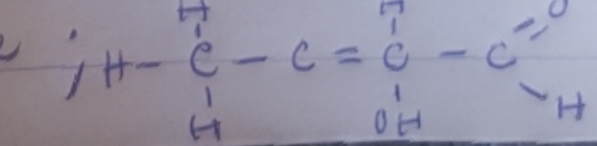
Structure ;



Functional groups present are ;
- Phenyl group (C_6H_5) with double bonds
- Amine
- Alkanone ($C(=O)-R$)

(iii) $CH_3C=CHCH(OH)CHO$

Structure ;



functional groups present:,
- Alkene (C=C)
- Hydroxyl group (OH)
- Alkanol ($C^{=O}_{-H}$)

2) Recall, $[\alpha]^T_\lambda = \frac{\alpha}{l \times c}$

where l = length of simple fuse

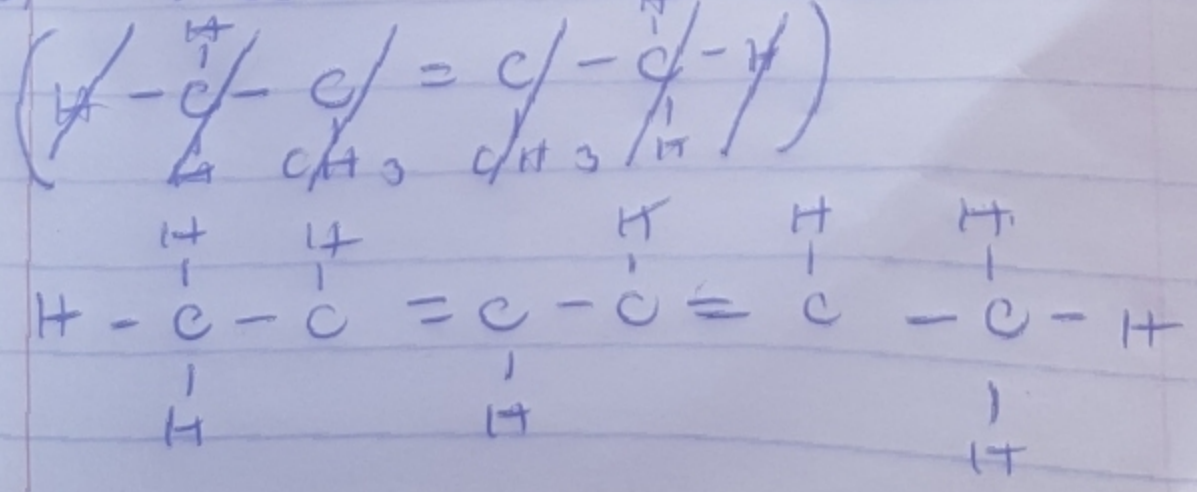
$c = \frac{\text{mass}}{\text{volume}}$ (g/dm) or (g/mol)

α = observed rotation

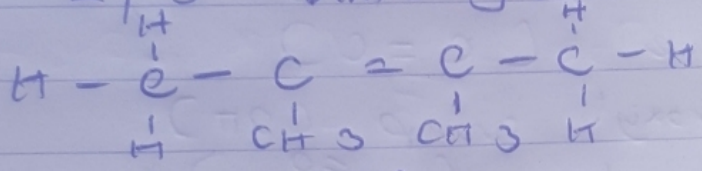
$S_r = \frac{1.0}{1.0 \times C \frac{0.856}{10}}$

$S_r = \frac{1}{0.0856} = 11.68$ //

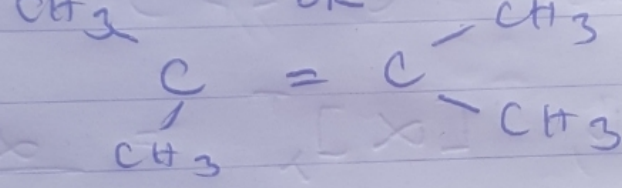
3) Hexa-2-4 diene



(4) 2,3 - Dimethyl but - 2-ene



OR



(Neo-butene)