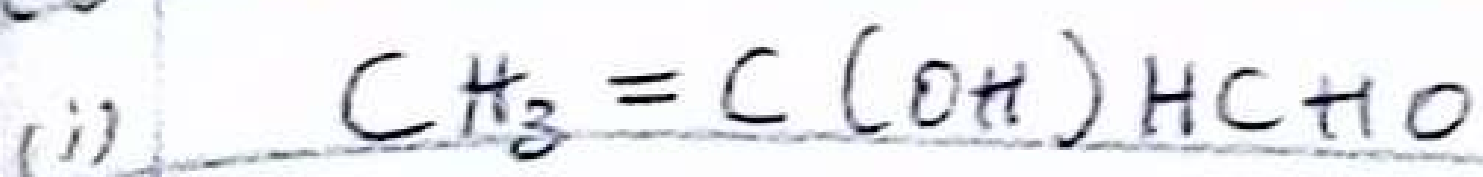
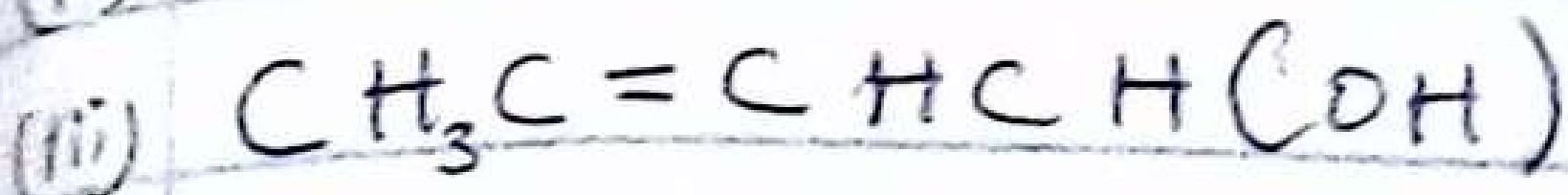


OLAWUYI AANWOLUWAPD CHRISTIANAH
19/MHS01/334

1



func-t- gps :- Alkene (double bond chain)

- OH (hydroxyl group)

- CHO (Aldehyde)



functional groups :- Phenol group

- Amine

- Alkanone / ketone



functional groups :- Alkene

- Hydroxyl (OH)

- Alkanal

2. Recall,

$$[\alpha]_D^{25} = \frac{\alpha}{l \times c}$$

where

l = length of S

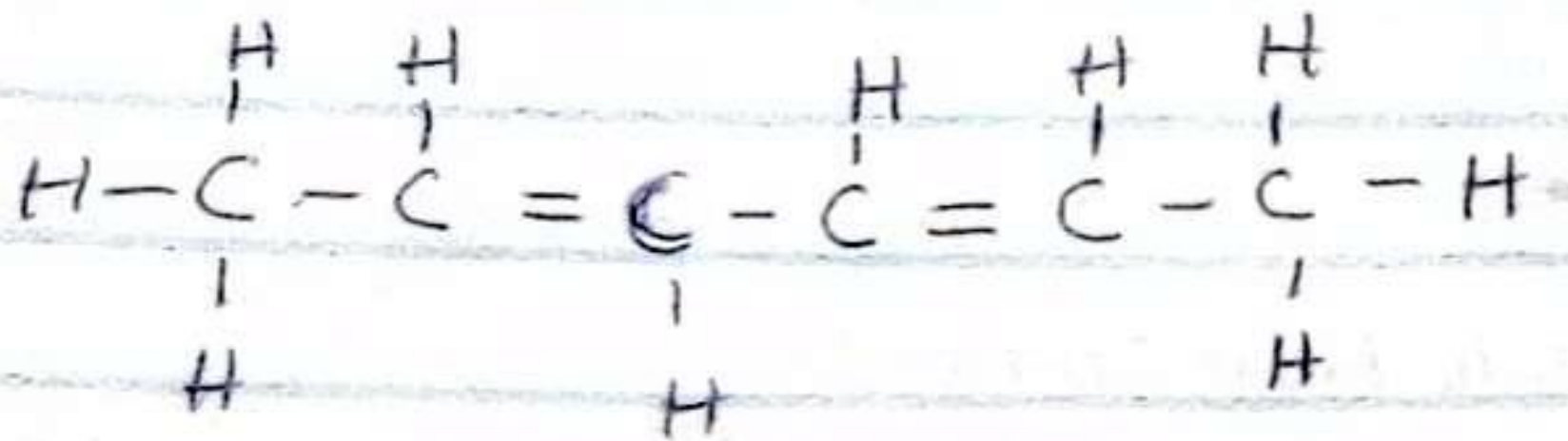
c = $\frac{\text{mass (g/dm}^3\text{) or (g/ml)}}{\text{Volume}}$

α = Observed rotation

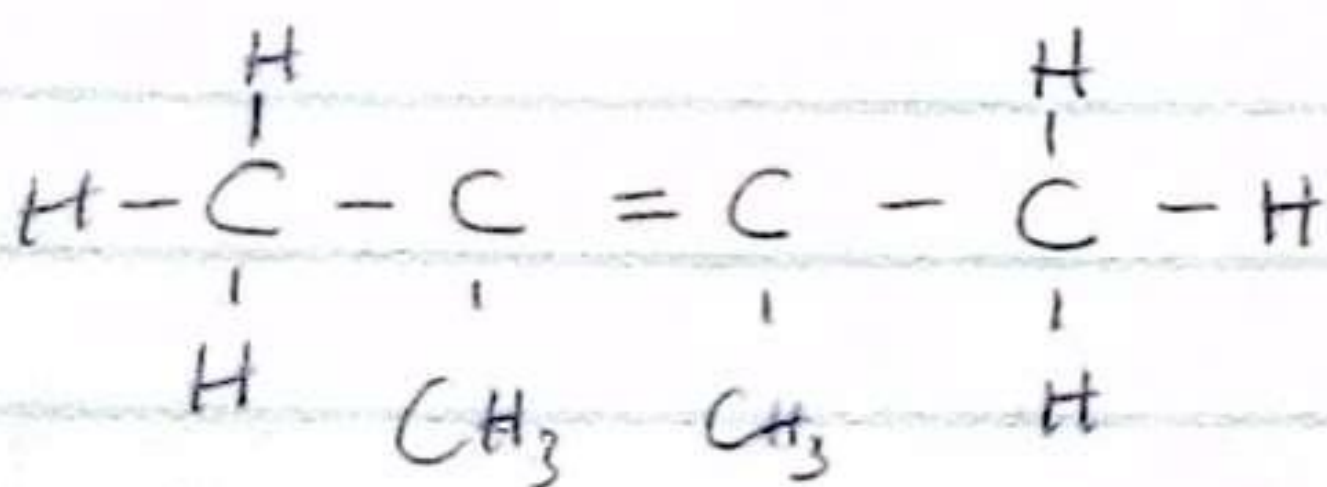
$$S_r = \frac{1.0}{1.0 \times \left(\frac{0.856}{1.0} \right)}$$

$$S_r = \frac{1}{0.856} = 11.68$$

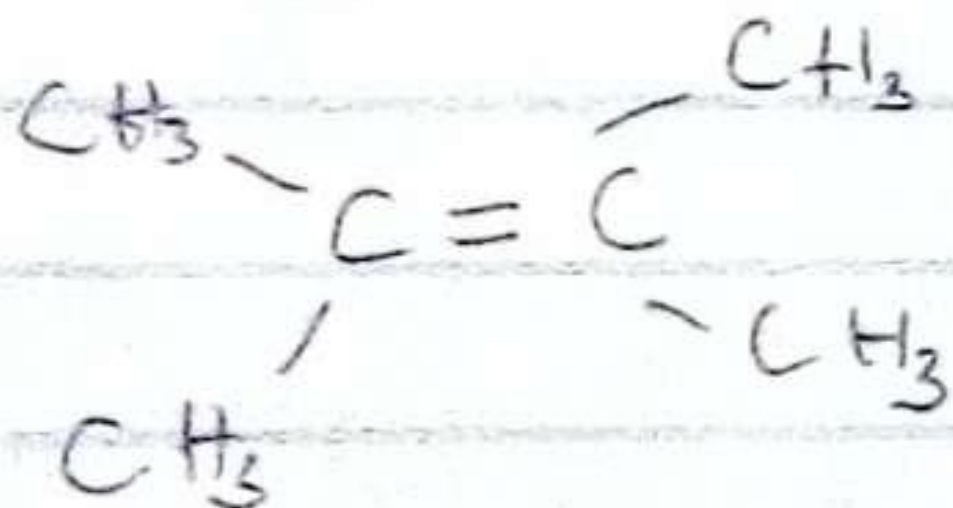
3. a) Hexa-2,4-diene



b.) 2,3-dimethylbut-2-ene



or



Neobutane