IBE CASSANDRA EZINNE MBBS 19/MHS01/185

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

- Double bond (C=C)
- Hydroxy functional group (OH)
- CHO (Formyl functional group

ii $C_6H_5CH(NH_2)COCH_3$

- Carbonyl functional group (C=O)
- Amino functional group ($-NH_2$)

iii $CH_3C=CHCH(OH)CHO$

- Double bond (C=C)
- ~~Hoo~~ Hydroxy functional group (OH)
- Formyl functional group (CHO)

2. Specific rotation = $\frac{\text{observed rotation (degrees)}}{(\text{Conc in g/cm}^3) \times (\text{path length in dm})}$

Amount in grams = 0.856g

Amount in cm^3 = 10 cm^3

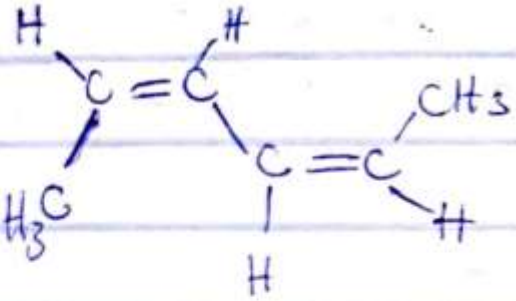
Conc in g/cm^3 = 0.856 g/cm^3

Path length of sample in dm = 1dm

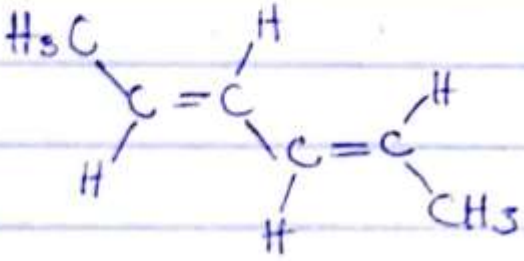
Specific rotation = $\frac{+7.00}{0.0856 \times 1}$

Specific rotation = 11.68 $g^{-1} cm^3 dm^{-1}$

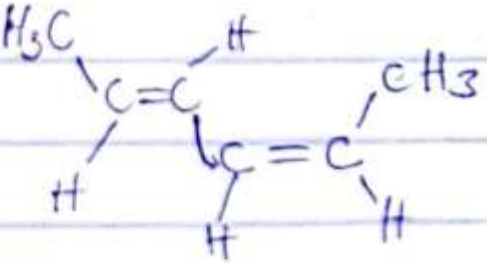
3i



← cis-cis-hex-2,4-diene



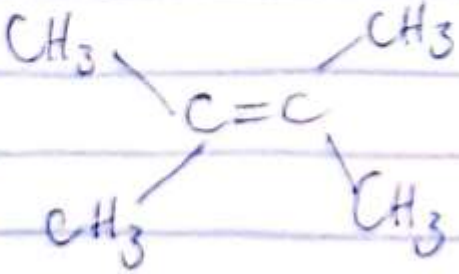
trans-trans-hex-2,4-diene



trans-cis hex-2,4 diene

ii

2,3 dimethyl but-2-ene



Cannot form geometric isomers.