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i) $CH_2 = C(OH)HCHO$
functional group; Alkene, Alcohol, Aldehyde

ii) $C_6H_5CH[NH_2]COCH_3$
functional group; Amide, ketone

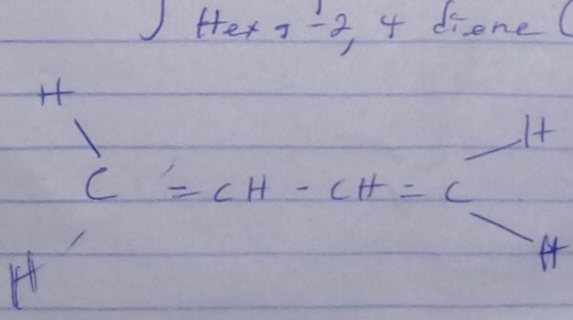
iii) $CH_3C = CHCH[OH]CHO$
functional group; Alkene, Alkanal, Aldehyde

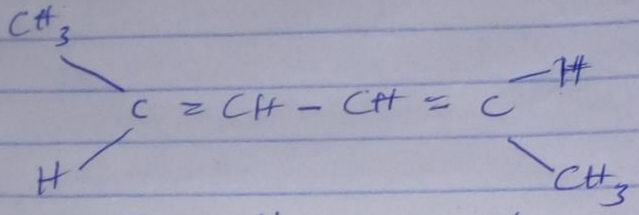
2) Specific Rotation
$= \frac{\text{Observed Rotation (degree)}}{\text{C(conc in g/cm}^3) \times \text{path length of sample in dm}}$

Specific Rotation $= \frac{1}{0.856\,g/10cm^3 \times 1}$

$= 11.7^\circ g^{-1} cm^3 dm^{-2}$

3) The geometric Isomers (where possible) for the following Compounds
Hexa-2,4 diene ($CH_3CH = CHCHCHCH_3$)

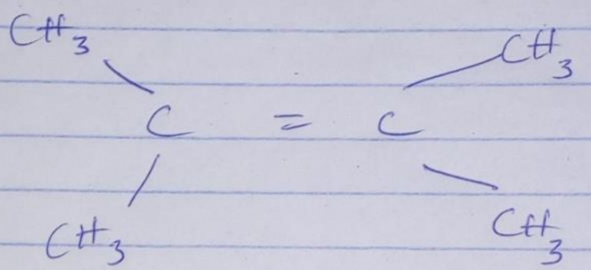




Trans Hexa-2, 4, diene

ii) 2, 3 - Dimethyl but-2-ene.

$CH_3 C(CH_3) = C(CH_3) CH_3$



There are no Isomers for the Compound.