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19/BNG051007

PHM102

Mechanics Department

1 (i) - Alkene functional group
- hydroxyl functional group
- aldehyde functional group

(ii) - Amine functional group
- Alkanone functional group

(iii) Alkene group
Alkanol group
Hydroxyl group

2 Specific rotation of (2R,3R)-tartaric acid

$$[\alpha] = \frac{\alpha}{C \cdot l}$$

$$\alpha = +1.0^\circ$$

$$l = 1.0 \text{ dm}$$

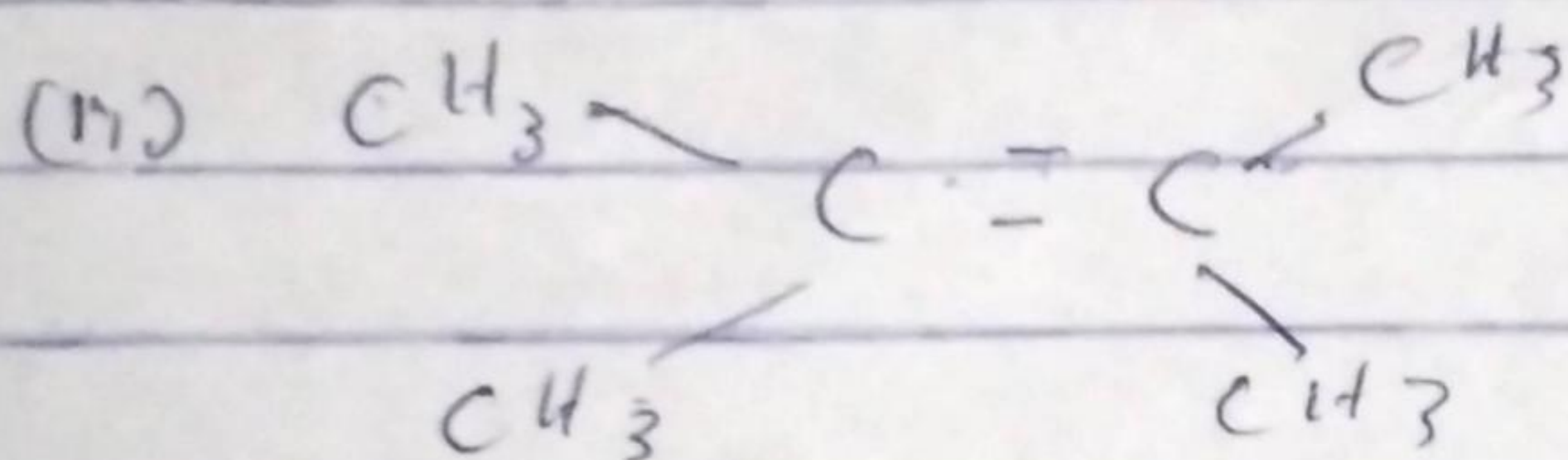
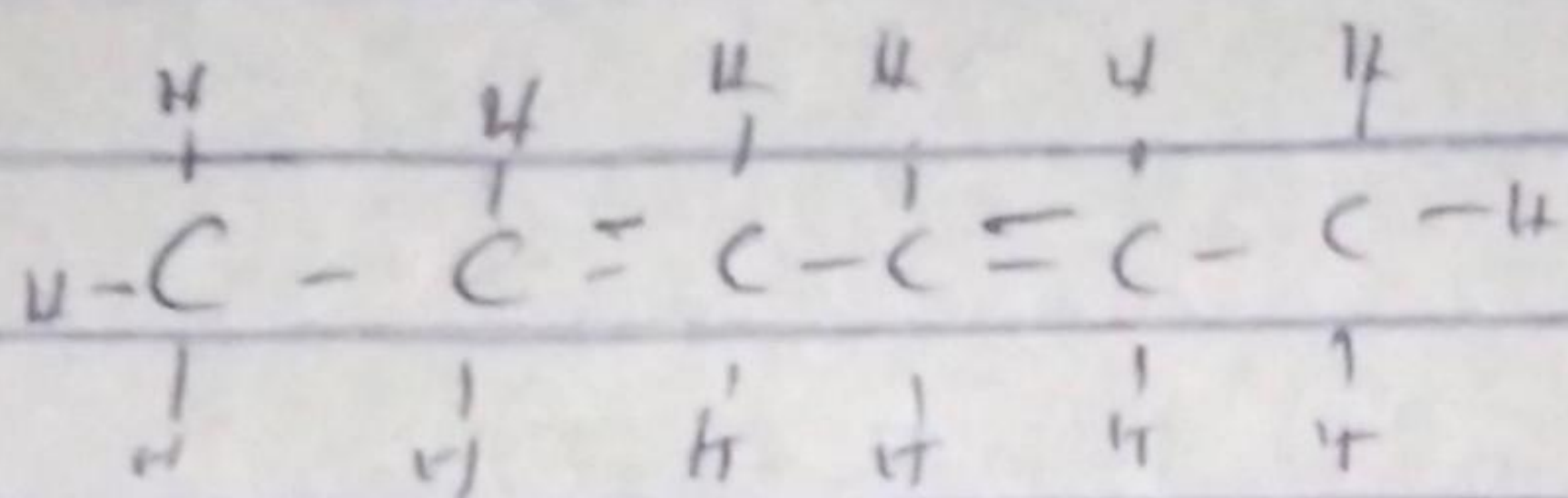
$$C = \text{Concentration in } \text{g cm}^{-3}$$

$$\therefore \text{mass} = 0.856 \text{ g}$$

$$\text{Conc in } \text{g cm}^{-3} = \frac{0.856}{10} = 0.0856 \text{ g cm}^{-3}$$

$$\alpha_{\lambda}^T = \frac{+1.0}{10 \times 0.0856} = 11.68^\circ$$

3 (10) Hexa 2,4 diene



No possible geometric isomer