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COURSE: AAT CHEM 102

MATRIC No: 19/ENG05/049

DEPARTMENT: Mechatronics

① (i) Hydroxyl and alkanal

(ii) Amide

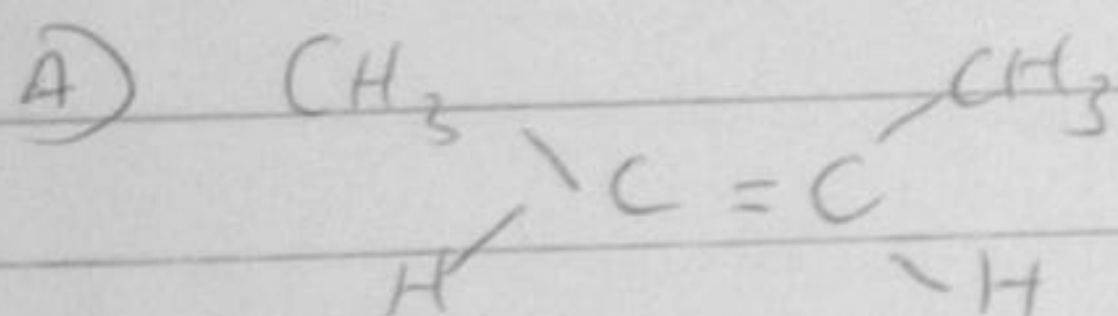
(iii) Hydroxyl and alkanal

② Specific rotation = $\frac{\text{observed rotation}}{(\text{dm of tube}) \times (\text{mass/volume of solvent})}$

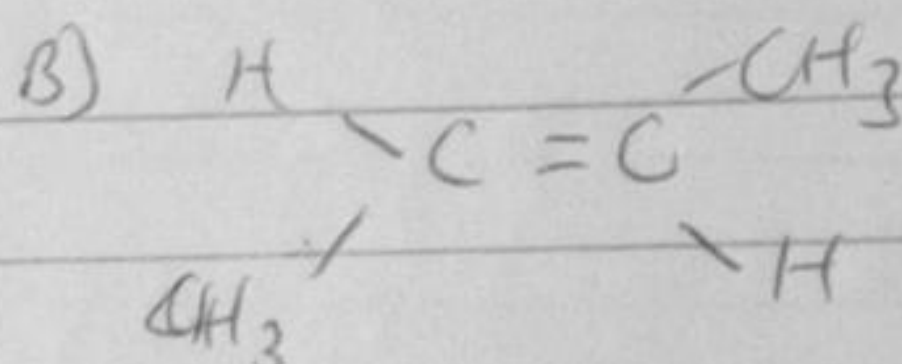
$$\text{Specific rotation} = \frac{+1^\circ}{1 \text{ dm} \times (0.856 \text{ g} / 10 \text{ cm}^3)}$$

$$= \frac{1^\circ}{0.0856 \text{ g/cm}^3 \times 1 \text{ dm}} = +11^\circ \text{ g}^{-1} \text{ cm}^3 \text{ dm}^{-1}$$

③ (ii) 2,3-Dimethylbut-2-ene

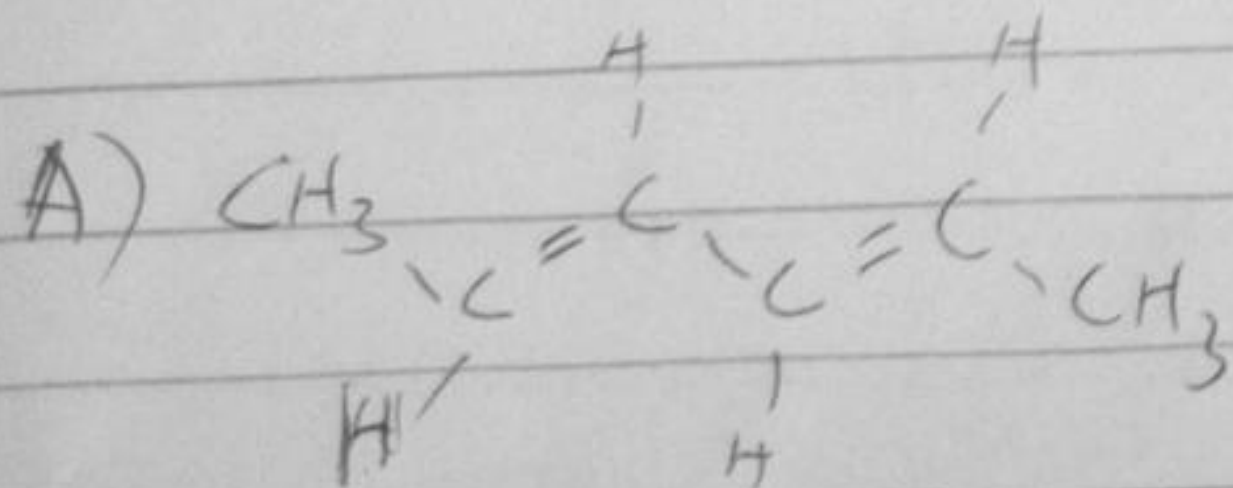


cis-But-2-ene

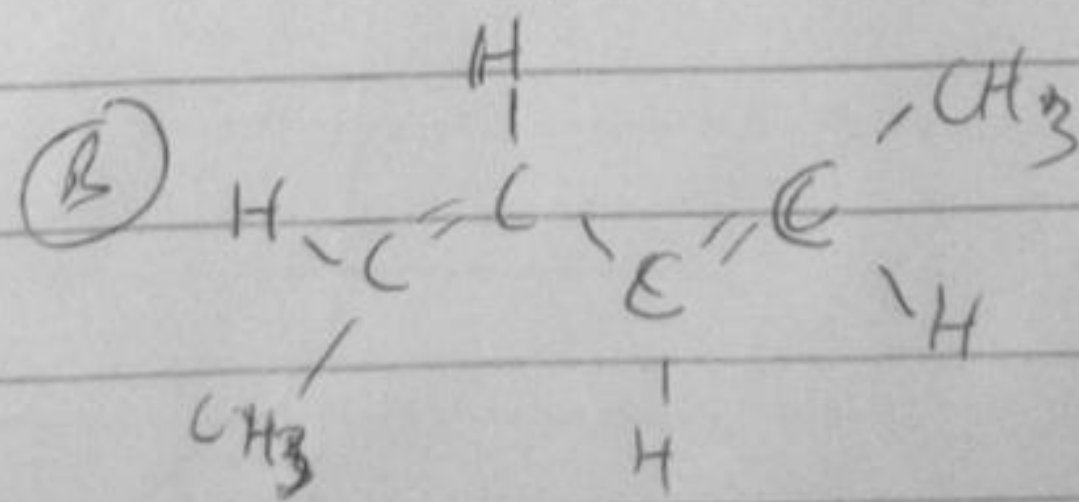


trans-But-2-ene

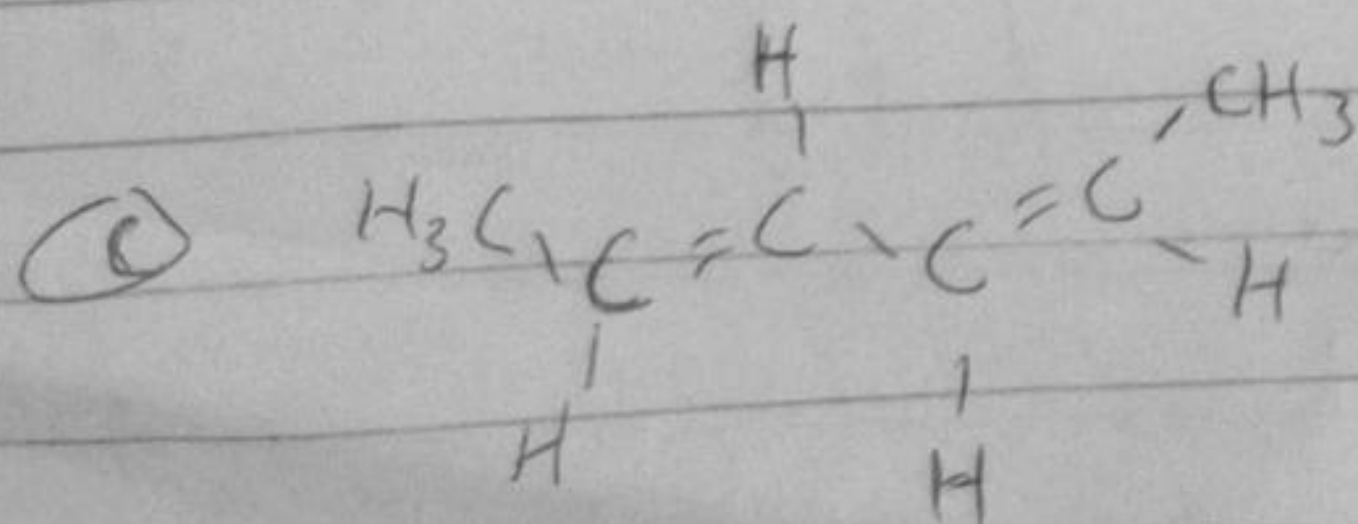
(i) Hexa-2,4-diene



trans-trans-2,4-hexadiene



cis-cis-2,4-hexadiene



trans-cis-2,4-hexadiene