

$$2) \text{ Conc. (g/dm}^3) = \frac{0.856 \text{ g}}{10 \text{ cm}^3} = 0.0856 \text{ g cm}^{-3}$$

Path length of sample cell in dm = 1.0 dm

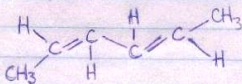
Observed rotation = $+1.0^\circ$

$$\text{Specific rotation} = \frac{\text{Observed rotation (degrees)}}{\text{Conc. (g/cm}^3) \times \text{Path length of sample cell (in dm)}}$$

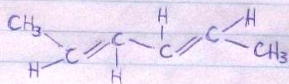
$$\text{Specific rotation} = \frac{+1.0^\circ}{0.0856 \text{ g/cm}^3 \times 1.0 \text{ dm}}$$

$$\text{Specific rotation} = +1.17^\circ \text{ cm}^2 \text{ dm}^{-1}$$

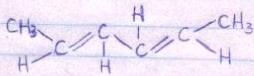
3i) Hexa-2,4-diene



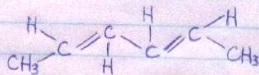
Trans-trans Hexa-2,4-diene



Cis-cis Hexa-2,4-diene



Cis-trans Hexa-2,4-diene



Hexa-2,4-diene

ii) 2,3-dimethyl but-2-ene: This compound does not show geometric isomerism.

NAME: AARON ABRAHAM DYEM

DEPARTMENT: COMPUTER ENGINEERING

COURSE: CHM ~~102~~ 102

MATRIC NO: 19/Eng02/011

ASSIGNMENT

