

NAME: OPAWOYE SHARON ABISOLA

DEPARTMENT: NURSING

MATRIC NO.: 19/MHS02/102

COURSE CODE: CHM 102

1 FUNCTIONAL GROUPS PRESENT IN MOLECULES OF COMPOUNDS

- $\begin{array}{c} \text{O} \\ \parallel \end{array}$
- I. $\text{CH}_2=\text{C}(\text{OH})\text{HCHO}$, functional groups include; $=$, $-\text{OH}$, $-\text{C}-\text{H}$ (Alkene, alcohols and alkanals)
- II. $\text{C}_6\text{H}_5\text{CH}(\text{NH}_2)\text{COCH}_3$, functional groups include; phenyl group, amine(NH_2), ketones; $-\text{C}=\text{O}$
- $\begin{array}{c} | \\ \text{OH} \end{array}$
- III. $\text{CH}_3\text{C}=\text{CHCH}(\text{OH})\text{CHO}$, functional groups include; $=$ (alkene), aldehydes and alcohols ($-\text{OH}$)

2.

Specific rotation = $\frac{\text{observed rotation (in degrees)}}{\text{Concentration in g/cm}^3 \times \text{path length of sample cell in dm}}$

Amount in grams = 0.856g

Amount in cm^3 = 10 cm^3

Conc. in g/cm^3 = 0.856

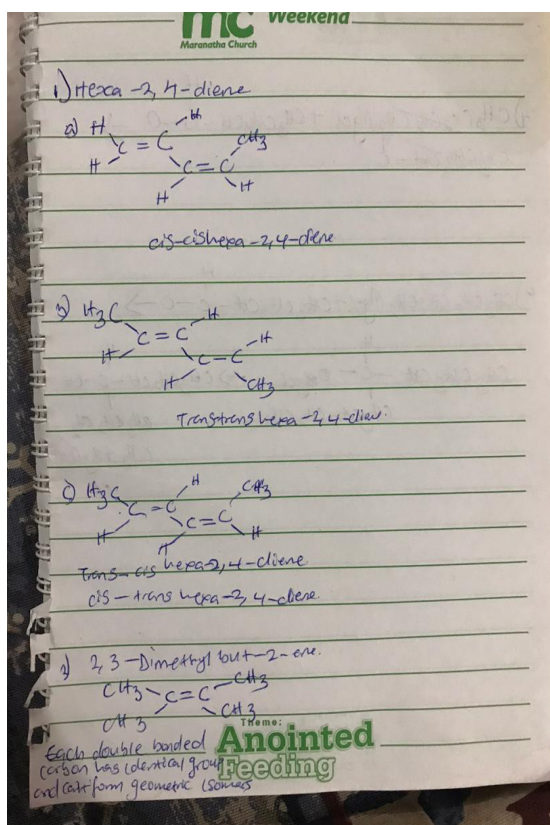
$$= 0.0856 \text{ g/cm}^3$$

Path length of sample in dm = 1 dm

$$\text{Specific rotation} = +10^0$$

$$0.0856 \times 1$$

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



3.