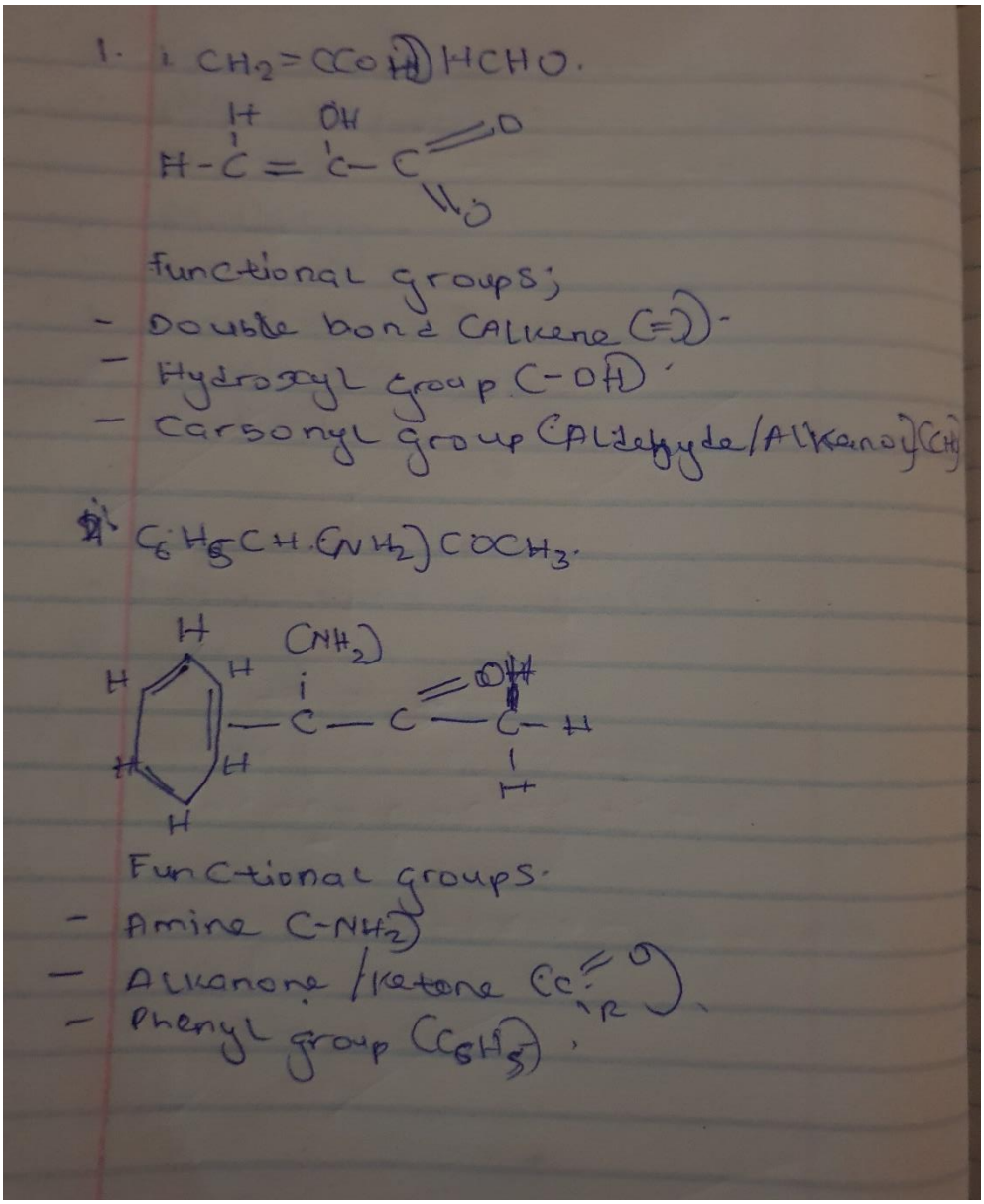
NAME: AYIM FORTUNE NTIRESHOWO

DEPARTMENT: DENTISTRY

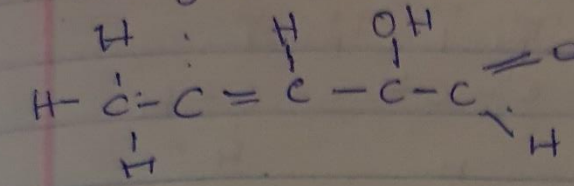
MATRIC NUMBER: 19/MHS09/004

COURSE: CHM 102

ASSIGNMENT:



iii. $CH_3C=CH\,CH(OH)CHO$



functional groups;

- Double bond (Alkene) (=).
- Hydroxyl group (-OH).
- Carbonyl group (Alkenal/Aldehyde) ($C{=}O$, H).

2. Solution;

Recall $[\alpha]_K^T = \frac{\alpha}{T/2 \cdot C}$

Where L = length of sample tube.

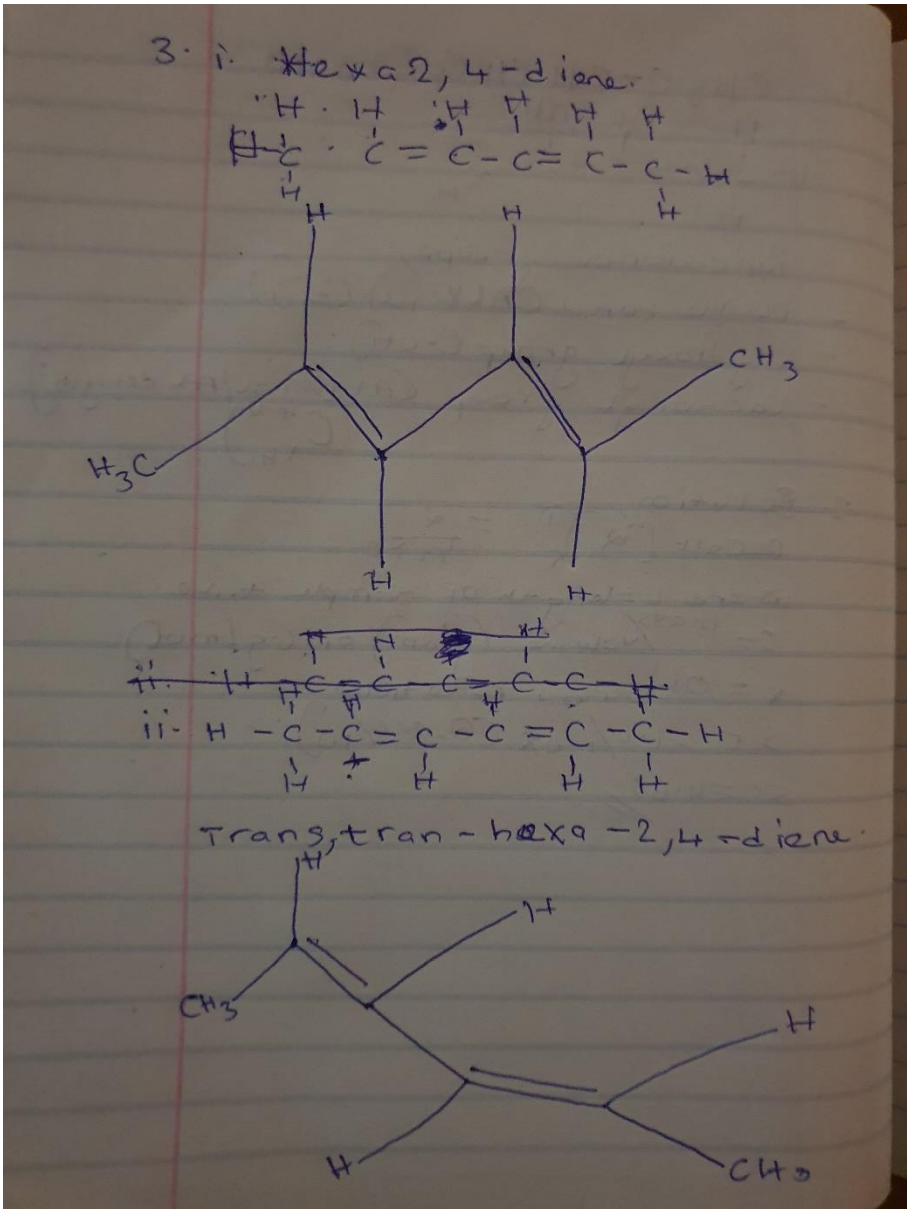
C = mass/volume (g/dm) or (g/mol)

α = Observed rotation.

$Sr = 1.0/1.0 \times (0.856/10)$.

$Sr = 11.68$ //

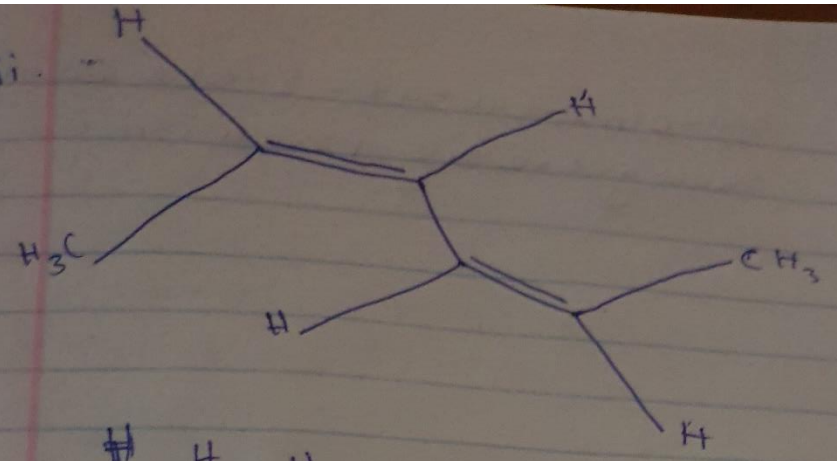
3. i. Hexa 2, 4 - diene.

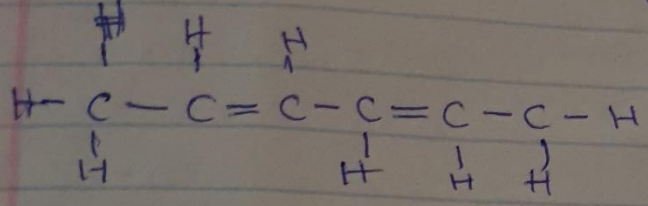


ii. H - C - C = C - C = C - C - H

Trans, tran - hexa - 2, 4 - diene.

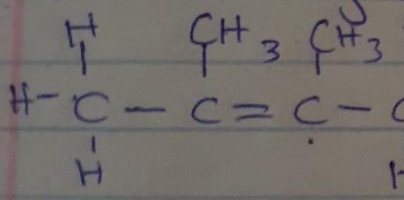
iii.





Cis, cis - hexa-2,4-diene.

4. 2,3-Dimethylbut-2-ene



(No isomers).

The atoms or groups attached to the double bonded carbon atom must be different. Geometrical isomers are not possible if one or both the doubly bonded Carbon atoms carry similar constituents. This is because configurations are identical. This is the reason

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2,3-Dimethylbut-2-ene do not show geometic isomerism.