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**MATRIC NUMBER: 19/mhs01/377**

**COLLEGE: MHS**

DEPARTMENT: MBBS

**COURSE CODE: CHM 102**

 **ASSIGNMENT**

1. Name the functional groups present
2. CH2=C[OH]HCHO: Alkene group, Hydroxyl group[alcohol], Aldehydes
3. C6H5CH[NH2]COCH3: Ketones and Amines
4. CH3C=CHCH[OH]CHO: Alkene, Alcohol and Aldehyde groups
5. Calculate the specific rotation of [2R,3R] Tatrataric acid

[α]= [α]observed/c x l

Where [α] is specific rotation, [α]observed is the observed rotation, c is concentration in g/mol or g/cm3 and l is path length.

[α]= + 1.00/0.0856\*10 = 1.170

1. Draw the possible geometric isomers where possible
2. Hexa-2,4-diene

 CH3 CH3

 C C C C

 H H

 Cis- hexa-2,4-diene

CH3 H

C C C C

 H CH3

Trans-hexa-2-4-diene

1. 2,3-Dimethyl but-2-ene

 CH3 CH3

C C

 CH3 CH3

2,3-Dimethyl but-2-ene has no geometric isomer.