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COLLEGE OF MEDICINE AND HEALTH SCIENCES

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 ASSIGNMENT 4- STEREOCHEMISTRY AND FUNCTIONAL GROUP

1. Name the functional groups present in each of the following molecules
2. CH2=C(OH)HCHO: Double chain(alkene), OH (hydroxyl group), O (Alkanol)

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 C

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 H

1. C6H5CH(NH2)COCH3: Amine, phenol group(C6H5)with double bonds, Kentone.
2. CH3C=CHCH(OH)CHO: Alkene(C=C), OH (hydroxyl group), Alkanol.
3. A 0.856g sample of pure (2R, 3R)-tartaric acid was diluted to 10cm3 with water and placed in a 1.0dm polarimeter tube. The observed rotation of 20oC was +1.0o. Calculate the specific rotation of (2R, 3R)-tartaric acid.



1. Draw the possible geometric isomers (where possible) for each of the following compounds: [i] Hexa-2,4-diene [ii] 2,3-dimethylbut-2-ene.
2. H H H H H
3. H C C C C C C H

 H H H

ii. 