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DEPARTMENT: NURSING

MATRIC NUMBER: 19/MHS02/021

COURSE: CHEM 102

ASSIGNMENT ON STEREOCHEMISTRY

Q1. Name the functional group present in each of the following molecules; (i) CH₂=C(OH)HCHO (ii) C₆H₅CH(NH₂) COCH₃ (iii) CH₃C=CHCH(OH)CHO

- (i) Functional group present;
 - a) Alkene
 - b) Hydroxyl group
 - c) Alkanal
- (ii) Functional group present;
 - a) Phenyl group
 - b) Amine
 - c) Alkanone/ketone
- (iii) Functional group present;
 - a) Alkene
 - b) Hydroxyl group
 - c) Alkanal

Q2. A 0.85g sample of pure (2R,3R)- tatrtaric acid was diluted to 10cm³ with water and placed in a1.0dm polarimeter tube. The observed rotation at 20°C was +1.0°. Calculate the specific rotation of (2R,3R)- tatrtaric acid.

Q3. Draw the possible geometric isomers (where possible) for each of the following compounds: (i) Hexa-2,4-diene (ii) 2,3-Dimethylbut-2-ene

