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MATRIC NO: 19/MHS02/030

DEPT: NURSING SCIENCE

COURSE: CHEM102

LEVEL: 100L

ASSNGMNT TITLE: STEREOCHEMISTRY AND FUNTIONAL GROUP.

1. Name the functional groups present in each of the following molecules

I.CH2=C(OH)HCHO

II. C6H5CH(NH2)COCH3

III. CH3C=CHCH(OH)CHO ANSWERS:

I.CH2=C(0H)HCHO

 Functional group; i. alkanol

 ii. aldehyde

 iii. alkene

II. C6H5CH(NH2)COCH3

 Functional group; i. amides

 ii. ketones

III. CH3C=CHCH(OH)CHO

 Functional group; i. Alkene

 ii. Alkanol

 iii. Aldehyde

1. A 0.856g sample of pure (2R, 3R)-tatrtaric acid was diluted to 10cm3 with water placed in 1.0dm polarimeter tube the observed rotation at 20c was +1.0. Calculate the specific rotation of (2R, 3R)-tatrtatric acid.

SOLUTION;



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

ANSWERS;

