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MATRIC NO: 19/MHS01/408

DEPARTMENT: MEDICINE AND SURGERY

COURSE CODE: CHM102

**ASSIGNMENT** 

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## ACSIGNMENT

Name the functional groups present in each of the following

9) CH2 = C(OH) HCHO

b) CGHBCH(NH2) (OCH3

c) CH3C= CHCH(OH)(HO

ANSWER

MOLECULES	FUNCTIONAL GROUPS
CH2= C(0H) HCHO	- Aldehyde (-CHO) - Hydrekyl group (-DH) - Alkens
Cétsch(NH2)COCH3	- Carbonyl group (-co) - Amine (-NH2)
CHZC-CHCH(OH)CHO	- Hydroxyl group (-OH) - Aldehyde C-CHO)

A b.8569 sample of pure (2R, 3R) - totataic acid was diluted to lam3 with water and placed in a lodin polarimeter tube. This observed rotation at 20°C overs +10°. Calculate the specific rotation of (2R, 3R) - tetrtanic acid ANSWER

Where [x] is specific optical votation | x = +1.0° & observoid rotation

c concentration in gem 3 pathlength in (dm)

3= 0.8869 = 0.085691cm3 concin glom3) x (poth length of sample all ndm) [x] = 1.0° 0.0856gcm<sup>3</sup> x1.01m Therefore the specific rotation of (28,38) tortaine acid is 11.682°g cm3 dm 3. Draw the possible geometric isomers (where possible for each of the following compounds 1) Hera - 2,4-diene 1) 2,3 - Dimethylbut - 2-ens POSSIBLE GOMERS Hera-2,4, diene [CH3(H=(HCH=CHCH3] : ( is -1, trans-4-dimethy | but-2-ene

## (SEALSLA

b) Trans-1, cis-4-dimethyl but-2-ene

2) 2,3-Dinethylbut-2-ene CH3 CH3

There are no isomers for the compound