Name: - Aremu Abraham Adeniyi

Department: - Pharmacy

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Course:-Chem 102 on stereochemistry and functional group

1)

 (i)CH2=C(OH)HCHO

 Functional groups: - OH (hydroxyl group)

 Double bond chain (Alkene)

 C=O (alkanal)

 H

 (ii)C6H5CH(NH2)COCH3

 Functional groups: - phenyl group (C6H5) with double bonds

 Amine (NH2)

 Alkanone/ketone(C-R)

 O

(iii)CH3C=CHCH(OH)CHO

 Functional group:- Alkene(C=C)

 Hydroxyl group (OH)

 Alkanal(C=O)

 H

2) Recall

 [ᾳ]T = ᾳ

 lXC

 Where

 L=length of tube

 C= mass (g/dm) or (g/mol)

 Volume

ᾳ= Observered rotation

 Sr= 1.0

 1.0X(0.856)

 10

Sr= 1

 0.0856 = 11.68

3)

(i) hexa-2,4-diene

 H H H H H

 H C C=C C = C C H

 H H H

(ii) 2,3-dimethylbut-2-ene

 CH3 CH3

 C=C

 CH3 CH3