## UFENE OFE OGECHI PHARMACY 19/MHS11/141

## **CHEM 102 (ASSIGNMENT)**

1&2.

611.100	4
CHM 102	2) massof tenfratic acids
1.a) cH2 = C(OH) HCHO	
Functional gropp present:	0.8569
- Double bond chain (Alkene)	Vol. of water giluded in
- of (Hydroxyl group)	=ioCm <sup>3</sup>
- C= (Alternol)	Recall,
- of (Hydroxyl group) - C=0 (Alkanol)	Mass conc. (c)= Mass = 0.756g
b) C6H5 CH ("NH2) cocH3	vol 10cm3
NH2 - CH2	Mass conc.(c)= Mass = 0.756g  vol 10cm <sup>3</sup> = 0.0356g/cm <sup>2</sup>
CNH2 CH3	vol. of polari meder tube = Idm3
(1) (4)	lengte vrtube = 1 dm
	Observed Fotation (x) = 41.0
Titala a proceti	Observed rotation (x) + 4100 at 20°c
Functional group present:	
- phenologroup into double	Specific rotation [x] =?
bondl	LX 3 X
- Amine (NH2) - Alkanohe / Ketone C=D	Ex] = X  CXL  = +1.0°
- Alkanohe ( Ketone C=0	s +1.0
	0.0856gcm x ldm
c) ct3 c = ct+ct+(ot+)ct+o	EX] = +1 =+11.6882°
5 b - 1 cmans process	0.03250
Functional group present	
- Double bond (-)	
- Double bond (=) - C=0 *(Kanol)	
- OH Hydroxyl group.	
	1

## 3. Hexa-2,4-diene – has only 3 isomers

$$H \longrightarrow H$$

## Isomers

B. 2,3 dimethy but-2-ene. - does not have geometric isomers because there are two identical groups attached to the same carbon of the double bond.

$$_{\text{CH}_3}^{\text{CH}_3}$$
 C=C $_{\text{CH}_3}^{\text{CH}_3}$  2,3-dimethylbut-2-ene