**NAME: OKEREKE OBIANUJU MIRRIAM**

**COLLEGE: MHS**

**DEPARTMENT: NURSING**

**COURSE: CHM102**

**MATRIC NO: 19/MHS02/094**

**ASSIGNMENT**

1. Name the functional group present in each of the following molecules.
2. CH₂=C(OH)HCHO
3. C6H5CH(NH2)COCH3
4. CH3C=CHCH(OH)CHO

**ANSWER**

1. ITS FUCTIONAL GROUP INCLUDES:

* ALDEHYDE
* ALKANOL
* ALKENE

1. ITS FUCTIONAL GROUP INCLUDES:

* AMIDES
* KETONES

1. ITS FUCTIONAL GROUP INCLUDES:

* ALKENE
* ALKANOL
* ALDEHYDE

1. A 0.856g sample of pure (2R, 3R) - tartaric acid was diluted to 10cm3 with water and placed in a 1.0dm polarimeter tube. The observed rotation at 200C was +1.00, Calculate the specific rotation of (2R, 3R) – tartaric acid.

**ANSWER**

OBSERVED ROTATION= 1.00

CONCENTRATION=

LENGTH OF SAMPLE CELL= 1.0dm

SPECIFIC ROTATION=== 11.680g-1dm-1

1. Draw the possible geometric isomers where possible for each of the following compunds.
2. Hexa-2, 4-diene

**ANSWER**

CH3

CH3  H

\ /

C=CH-CH=C

/ \

H CH3

**Trans Hexa -2, 4- diene**

CH3  CH3

\ /

C=CH-CH=C

/ \

H H

**Cis Hexa -2, 4- diene**

1. 2, 3- Dimethyl but-2-ene

**ANSWER**

**GEOMETRIC ISOMER ISN’T POSSIBLE FOR 2, 3- DIMETHL BUT-2-ENE**