**NAME: OGUNTUNDE RACHAEL OPEYEMI**

**MATRIC NO: 19/MHS10/003**

**DEPT: OPTOMETRY**

**COLLEGE: MHS**

**COURSE CODE: CHM 102**

1. Name the functional groups present in each of the following molecules
2. CH2=C(OH)HCHO :
3. –OH (Alkanol)
4. –CHO (Alkanal)
5. Double bond (Alkene)
6. C6H5CH(NH2)COCH3:
7. –NH2 (Amine)
8. –C=O (Alkanone)
9. CH3C=CHCH9OH)CHO:
10. –CHO (Alkanal)
11. –OH ( Alkanol)
12. Double bond (Alkene)
13. Specific rotation = observed rotation (degrees)

 (Conc. g/cm3) × path length of sample

Given: observed rotation = 1·0°

 Path length of sample = 1dm

 Conc. g/cm3 =?

Conc. g/cm3 = size of sample (g)

 Volume (cm3)

Conc. g/cm3 = 0·856g

 10cm3

Conc. g/cm3 = 0·0856g/cm3

Specific rotation = 1·0°

 0·0856g /cm3 × 1dm

 = 11.68° g-1 cm3 dm-1

1. Draw the possible geometric isomers (where possible) for each of the following compounds
2. Hexa-2,4-diene:



1. 2,3-Dimethylbut-2-ene

 