NAME: Okoli Shalom Chinedu

LEVEL: 100l

MATRIC NO: 19/Mhs01/319

COLLEGE: MHS

DEPT: MBBS

COURSE CODE: CHM 102

Assignment

1. a. CH2=C(OH)HCHO – aldehyde group, Hydroxyle group, and double bond

b. C6H5CH(NH2)COCH3 – phenyl group, carbonyl group(-C=O), and amine group(NH2)

c. CH3C=CHCH(OH)CHO – hydroxyl group(-OH), aldehyde group(-CHO), and double bond.

2. Solution

a. 0.856g to cm3 = 0.856g/10cm3 = 0.856g/cm3

b. specific rotation = observed rotation (degrees) / Conc. x path length of sample cells in

 dm

 = 1.0/0.0856 x 1 = 1.0/0.856 = 11.68 = 11.7g-1 cm3 dm-1

3.

