NAME: ONYEBASHI AWELE VICTORY

MATRIC NUMBER: 19/MHS01/354

COURSE: CHEMISTRY

COURSE CODE: CHM 102

ANSWER TO THE ASSIGNMENT

1. (i)a. OH {Alcohol group}

b. CHO {Aldehyde group]

(ii)a. NH2 {Amine}

b. CO {Carbonyl group}

(iii)a. OH {Alcohol group}

b. CHO {aldehyde group}

2. Mass of pure{2R,3R} tartaric acid=0.856g

Volume of water= 10cm3

Concentration of the sample= 0.856 =0.0856g/cm3

10

Volume of polarimeter tube= 1 dm3

Temperature= 20**.** C

Rotation= + 1.0**.**

Specific rotation= observed rotation{degrees}

{concentration in g/cm3 }\*{path length of sample cell in dm}

= 1.0000 = 11.682g-1 cm3dm-1

0.0856\* 1

3 a.

C2H5 H

C = C

H C2H5

Cis trans hex-2,4- diene

CH3  CH3

b. C = C

CH3 CH3  2,3 dimethyl but-2-ene