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DEPARTMENT: DENTISTRY

MATRIC NO: 19/MHS09/024

COURSE CODE: CHM 102

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1.a CH2=C(OH)HCHO-Alkene, Hydroxyl group, Alkanol

 b.C6H5CH(NH2)COCH3-Phenol group with double bond, Amine, Alkanone/ketone

 c. CH3C=CHCH(OH)CHO- Double bond, Alkanol, Hydroxyl group

2. Using specific rotation =) observed rotation (degrees

 (conc.g/cm3) x (path length of sample)

Observed rotation= +1.00c

Conc. g/cm3 = 0.856g

 10cm3 = 0.0856g/cm3

Length of sample cell= 1dm

Therefore, specific rotation of (2R, 3R) tartaric acid = + 1.0 0c

 0.0856 x 1dm = +11.68 0c g\_1 cm3dm\_1

3.

