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MATRIC NUMBER: 19/MHS02/015

DEPARTMENT: NURSING COURSE CODE: CHM 102

1. Name the functional group present in each of the following molecules.

i. CH2=C(OH)HCHO

Double bond chain (alkene)

Alkanol Aldehyde

ii. C6H5CH(NH2)COCH3

Phenyl group

Amides

Alkanone

iii. CH3C=CHCH(OH)CHO

Double bond (Alkene)

Alkanol

Aldehyde

2. A 0.856g sample of pure (2R, 3R)- tartaric acid was diluted to  $10\text{cm}^3$  with water and placed in a 1.0 dm polarimeter tube. The observed rotation at  $20^{\circ}\text{C}$  was  $+1.0^{\circ}$ . calculate the specific rotation

of (2R, 3R)- tartaric acid.

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=85.6 = 0.08569 1cm
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- 3. Draw the possible geometric isomers (where possible) for each of the following compounds.
  - i. Hexa-2,4-diene

ii. 2,3dimethylbut-2-ene