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**MATRIC NO.:** 19/ENG05/038

**DEPT./COLLEGE:** Mechatronics Engineering.

**COURSE:** CHM 102

**ASSIGNMENT.**

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

(i) CH2=C(OH)HCHO. **ANS=** Functional group – Alkene (double bond)

-OH (hydroxyl group)

- CHO (Aldehydes)

(ii) C6H5CH(NH2) COCH3  **ANS**= Functional group – Ketone

(iii) CH3C=CHCH(OH)CHO. **ANS=** Functional group – Alkene

- Aldehyde (CHO)

2. A 0.856 g sample of pure (2R, 3R)-tatrtaric acid was diluted to 10cm3 with water and placed in a 1.0 dm polarimeter tube. the observed rotation at 200 C was +1.00. Calculate the specific rotation of (2R, 3R)-tatrtaric acid.

Recall, =

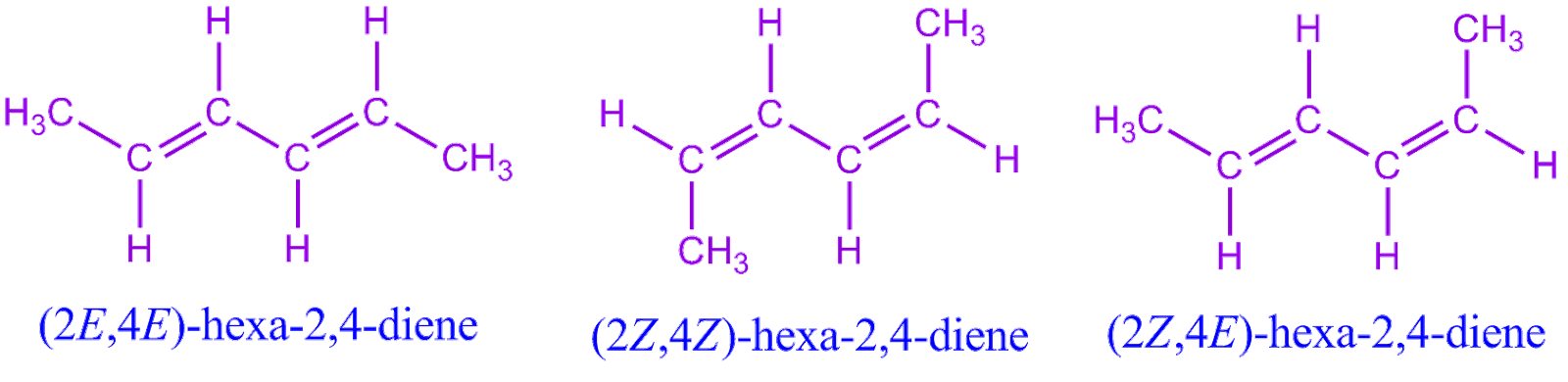
Where, l = length

C=

S1 =

= 11.68

3. Draw the possible geometric isomers (where possible) for each of the following compounds:

(i) **ANS=** 

(ii) 2,3-Dimethylbut-2-ene **ANS=**

