

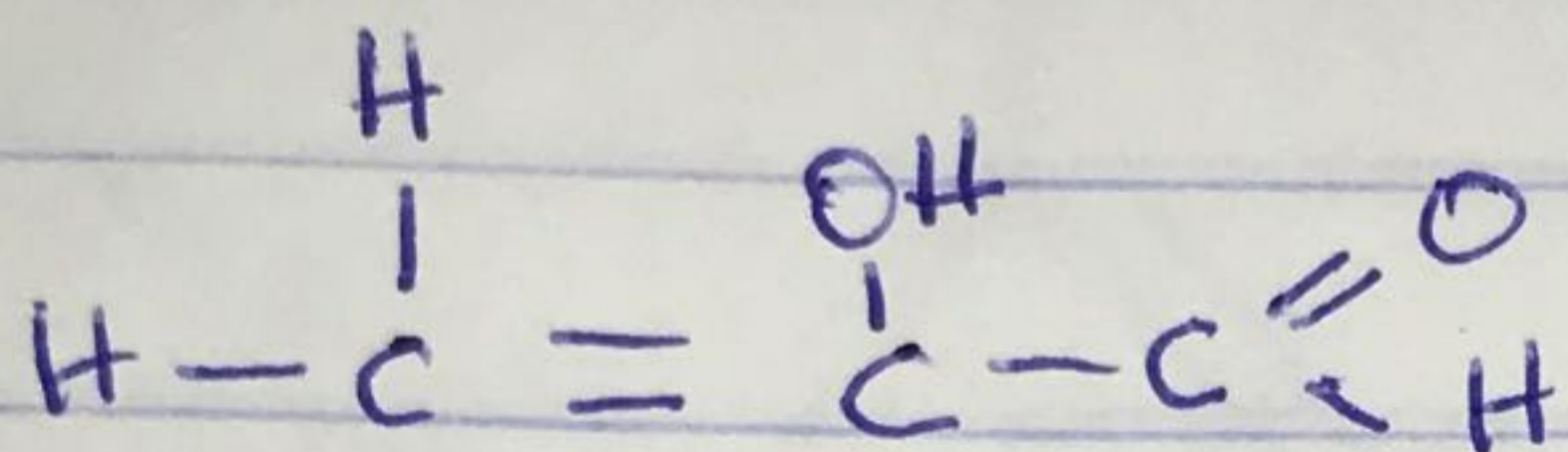
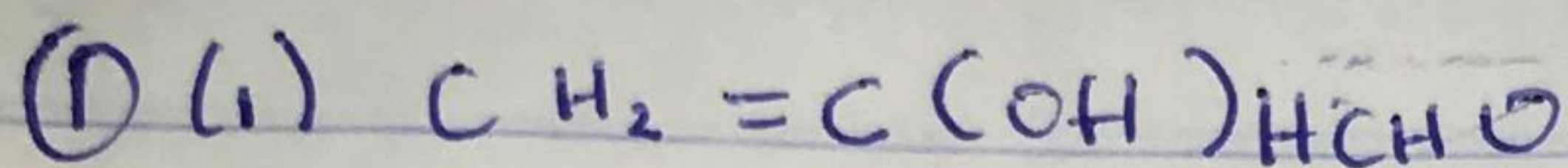
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Department: Nursing

Matric No: 19/MH502/092

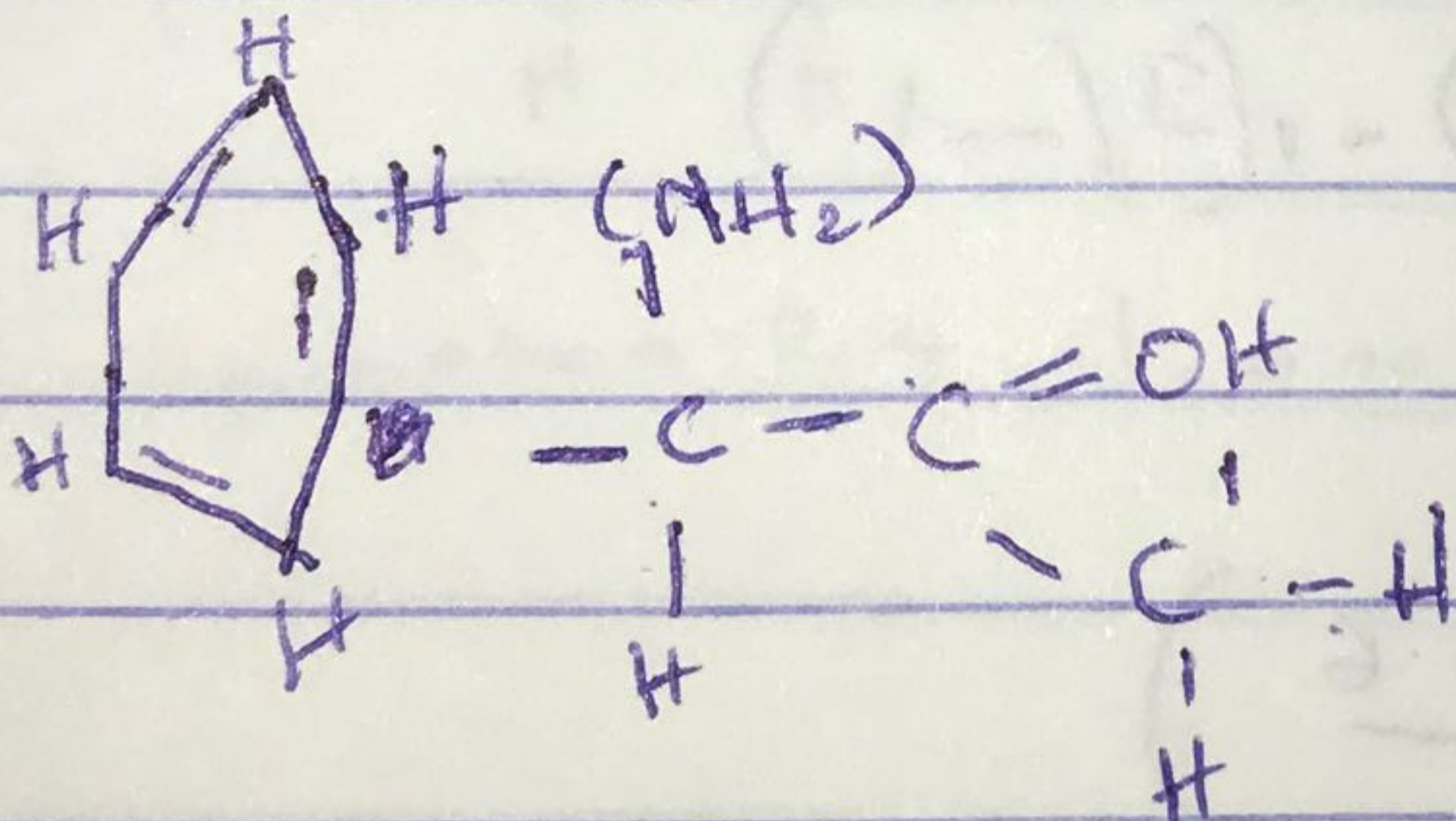
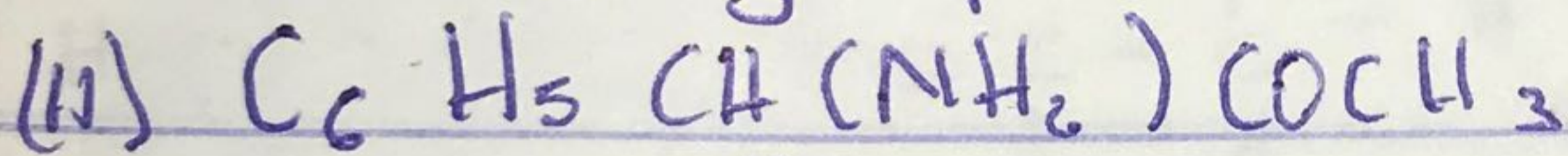
Date: 17/05/2020

Course Code: Chem 102



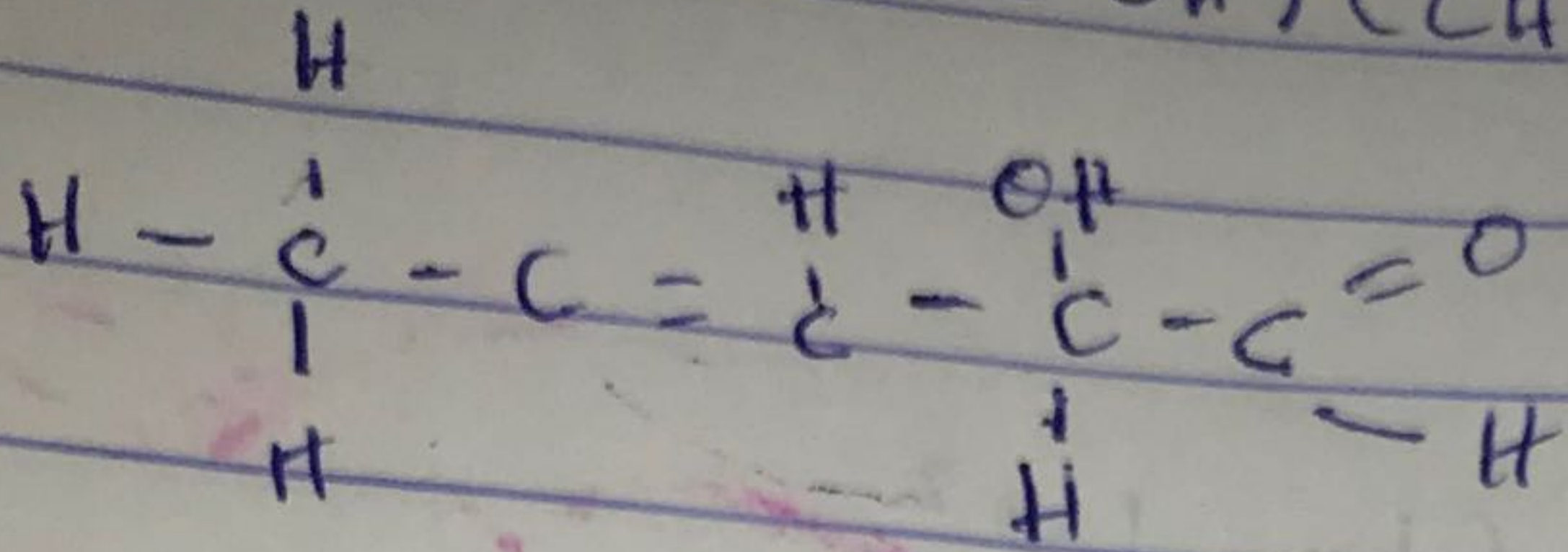
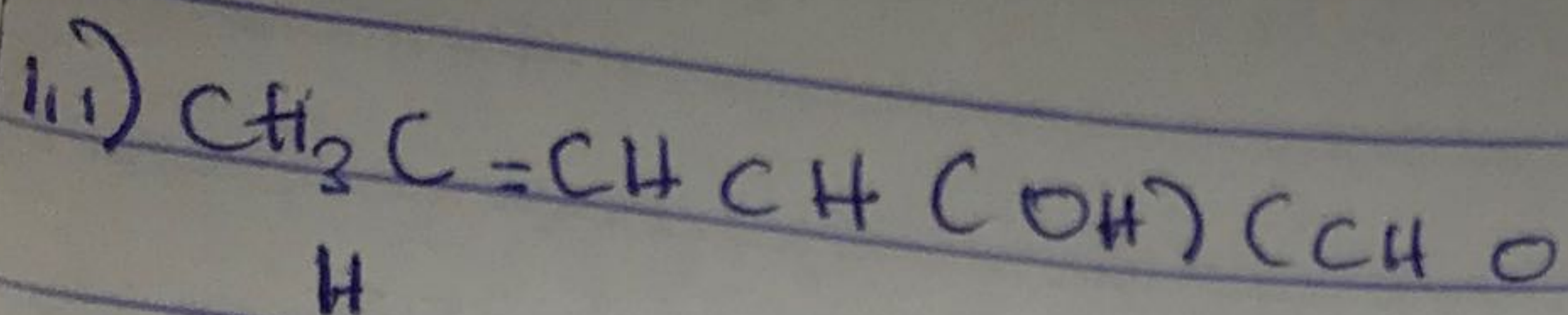
Functional groups

- double bond (Alkene $C=C$)
- hydroxyl group ($-OH$)
- Carbonyl group (Aldehyde)



Functional groups

- Amine ($-NH_2$)
- Alkanone / Ketone ($C=O$)
- Phenyl group (C_6H_5)



Functional group

- double bond (Alkene $\text{C}=\text{C}$)
- Hydroxyl group ($-\text{OH}$)
- Carbonyl group (Alkinal / Alkyle)
 $\text{C}=\overset{\text{O}}{\text{H}}$

2 Recall $[\alpha]_D^T = \frac{\alpha}{l \cdot c}$

where l = length of sample tube

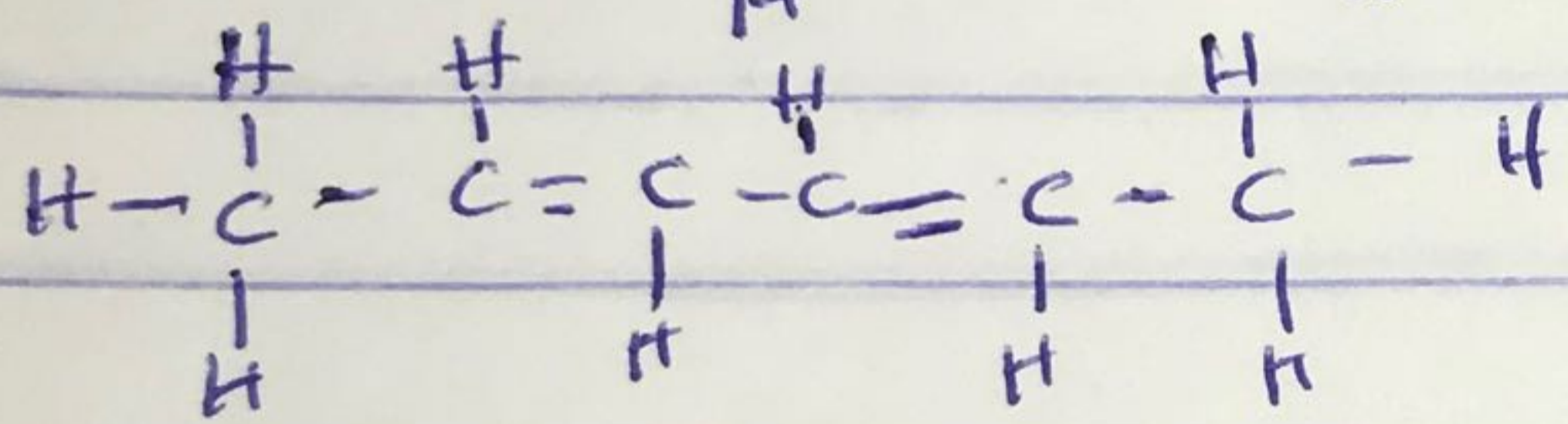
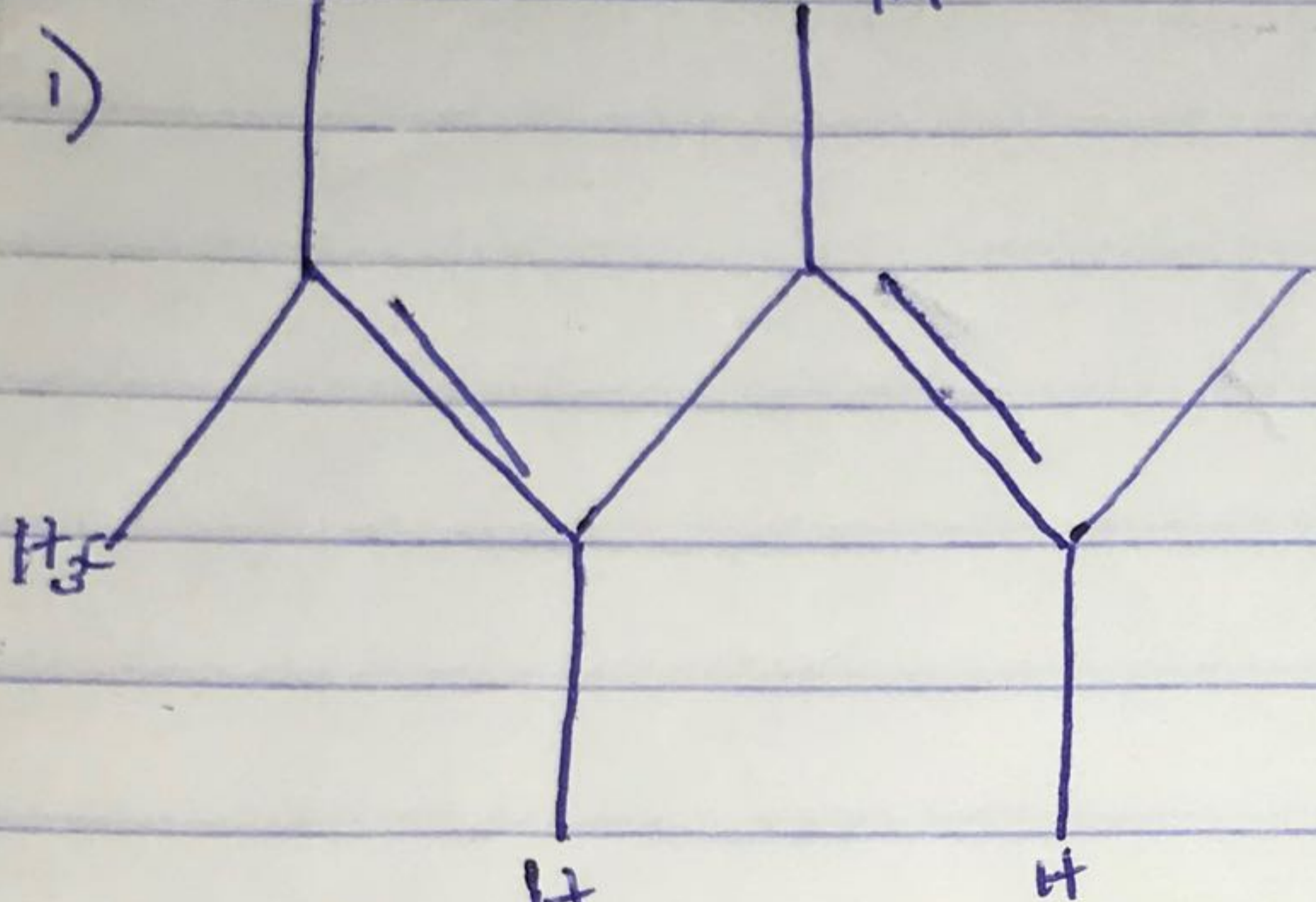
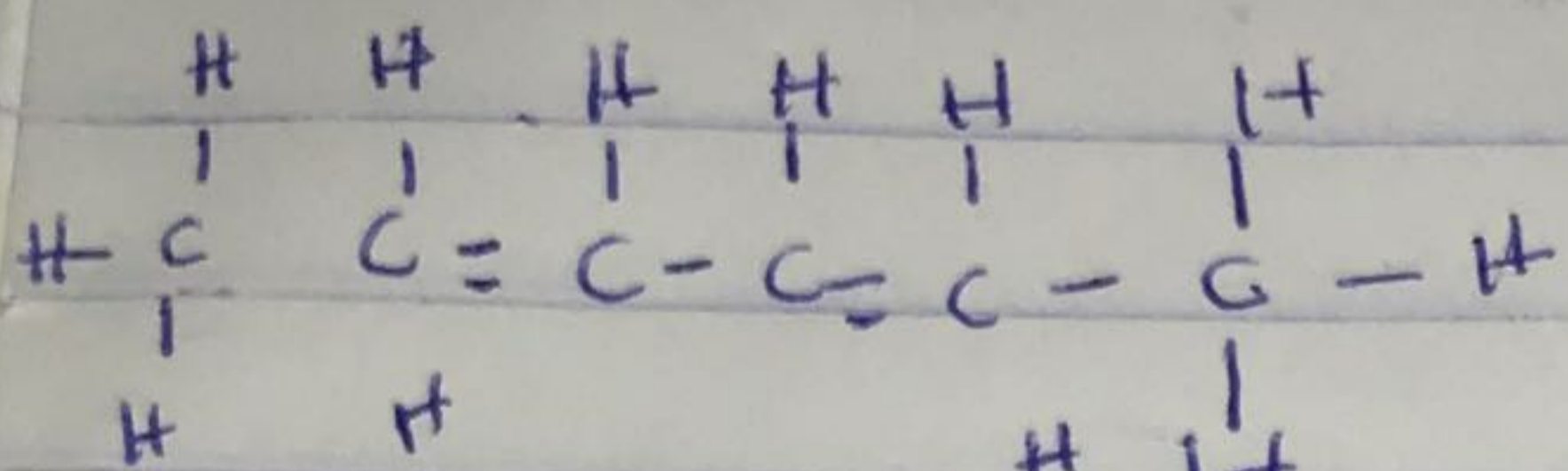
c = mass/volume (g/dm^3) or (g/ml)

α = Observed rotation

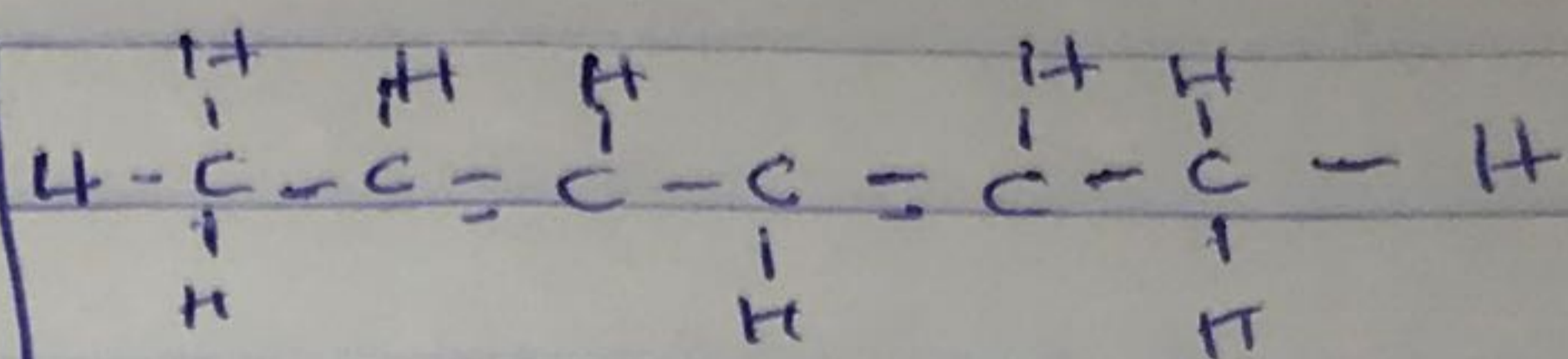
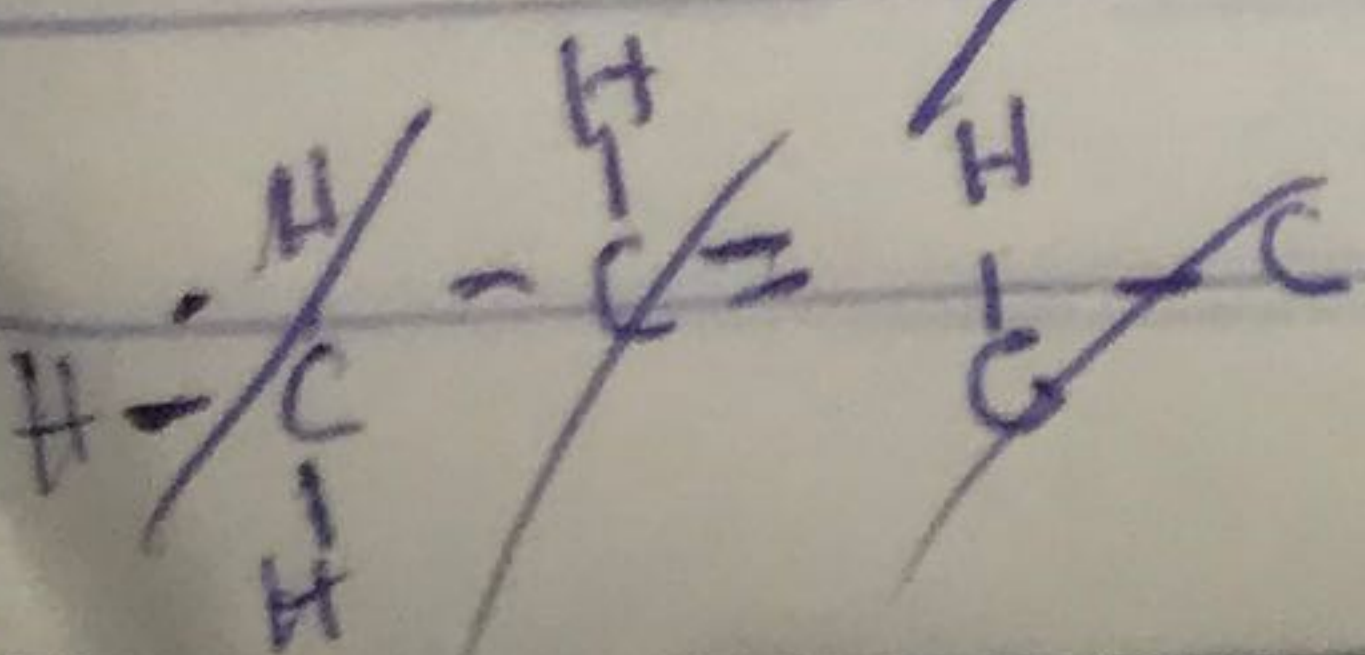
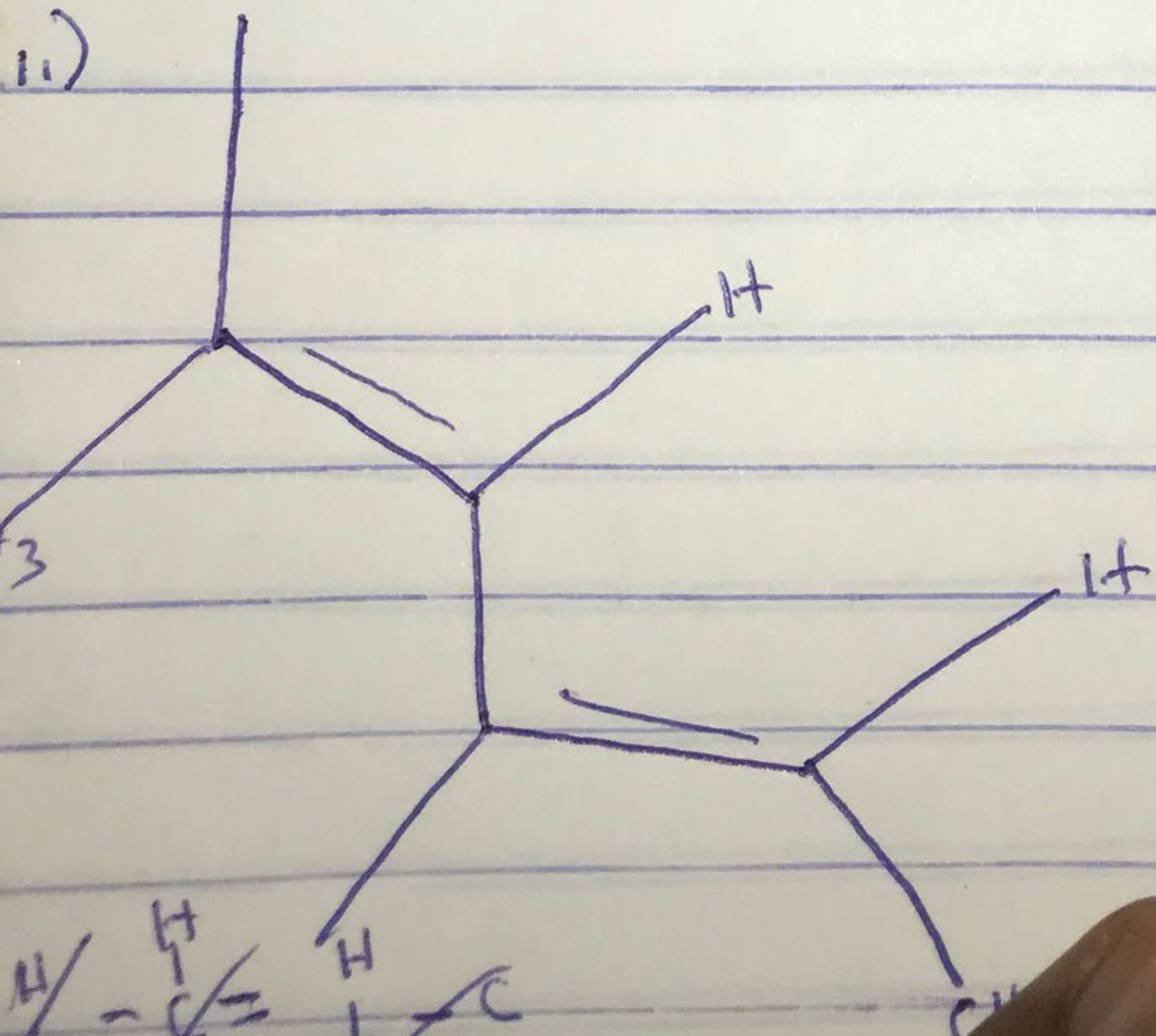
$$S_r = \frac{1.0}{1.0 \times \left(\frac{0.856}{1.0} \right)}$$

$$S_r = 11.68$$

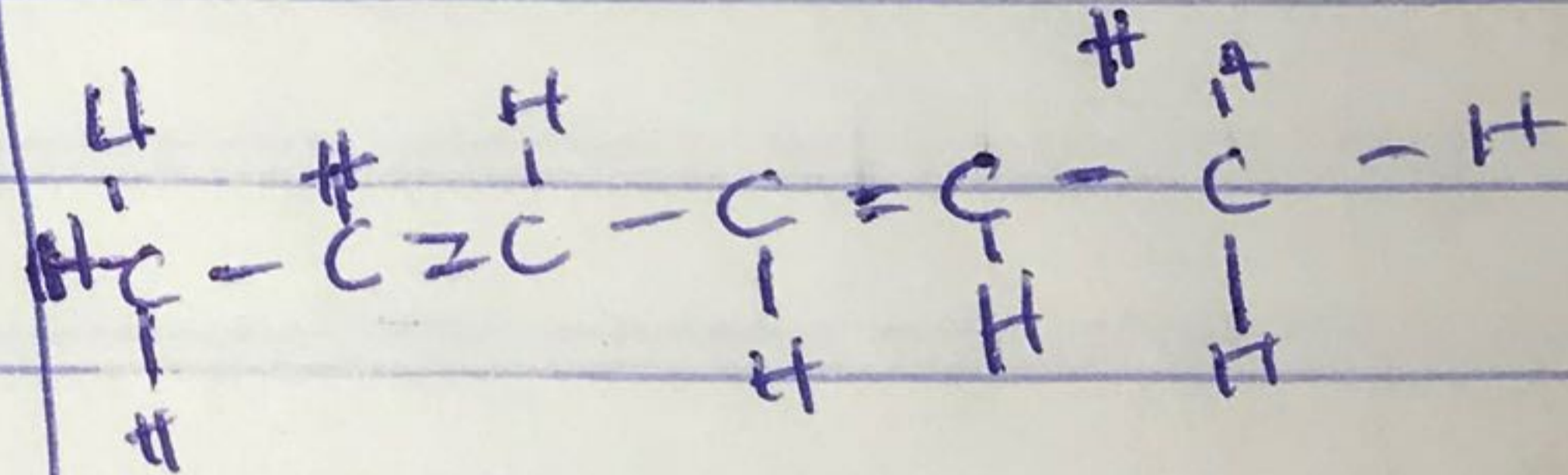
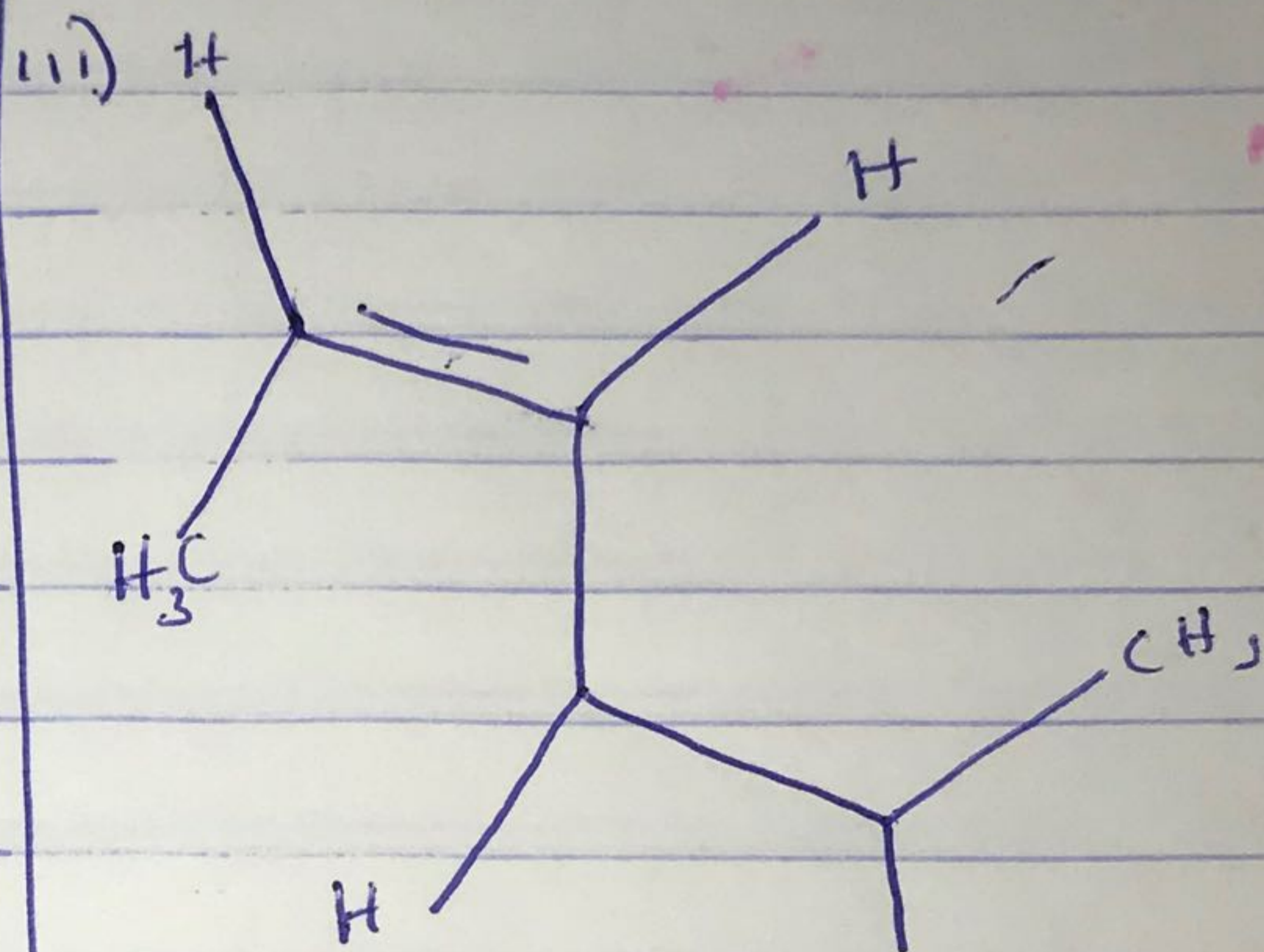
8) Hexa-2,4-diene



Trans,trans-hexa-2,4-diene



Cis, Trans-hexa-2,4-diene



Cis, cis-hexa-2,4-diene

ii) 2,3-dimethylbut-2-ene

