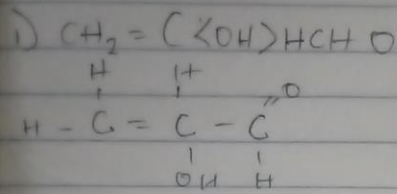


Name: Johnson Mojuyinlusa Divine

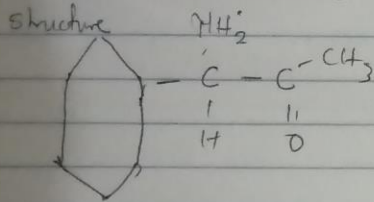
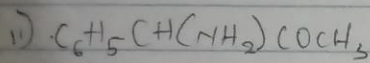
Matric no: 19/MH501/222

Course code: CHM 102



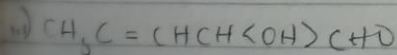
Functional ^{group} present are

- Double bond chain = (Alkene)
- OH (hydroxyl group)
- $\text{C} = \text{O}$ (alcohol)

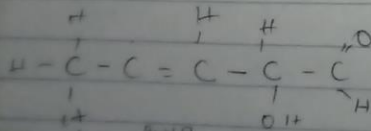


Functional ^{group} present:

- Amine
- Alkanol / Ketone $\text{C} = \text{O}$



Structure



Functional ^{group} present:

- Alkene $\text{C} = \text{C}$
- Hydroxyl group OH
- Alkanol $\text{C} = \text{O}$

2) Recall

$$[\alpha]_D = \frac{\alpha}{l \times c}$$

where l = length of sample pure

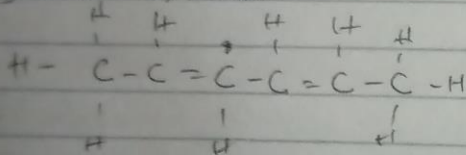
$$c = \frac{\text{mass}}{\text{volume}} \quad \frac{\text{g}}{\text{dm}^3} \quad \text{or } \frac{\text{g}}{\text{mol}}$$

α = observed rotation

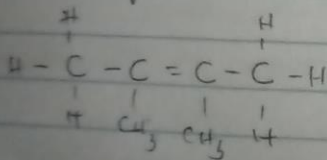
$$S_r = \frac{1.0}{1.0 \times \left(\frac{0.856}{10}\right)}$$

$$S_r = \frac{1}{0.0856} = 11.682$$

3) Hexa-2,4 diene



4) 2,3 dimethyl but-2-ene



or

