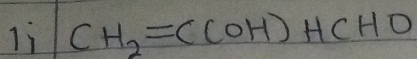
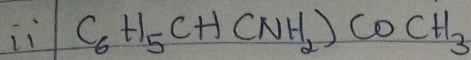


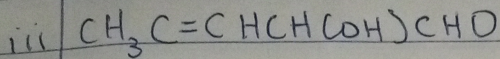
Chima-Dim Eberechukwu
17/mhsoi/127 MBBS



Ans: Alkene, Alcohol, Aldehyde



Ans: Amines, ethers ketones, Alkyne



Ans: Alkene, Aldehyde, Alcohol

2. α_D^{25} = specific rotation

$$\alpha = +1.0^\circ$$

$$c = 0.856/10 = 0.0856 \text{ g cm}^{-3}$$

$$l = 1 \text{ dm}$$

$$\alpha_D^{25} = \frac{\alpha}{c \cdot l}$$

$$\alpha_D^{25} = \frac{1.0}{0.0856 \times 1}$$

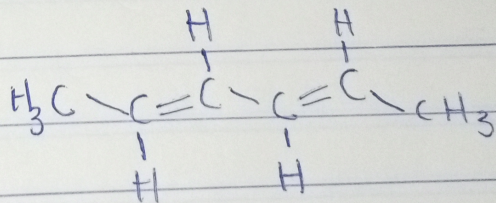
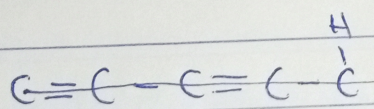
$$0.0856 \times 1$$

$$\alpha_D^{25} = 11.68^\circ \text{ g}^{-1} \text{ cm}^3 \text{ dm}^{-1}$$

3a) Hexa-2,4-diene.

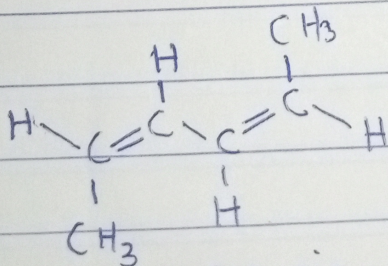
geometric isomers:

i.



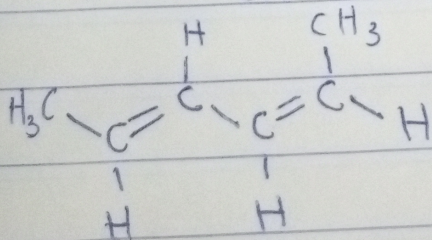
Trans-trans-2,4-hexadiene

ii



Cis-cis-2,4-hexadiene

iii



Cis-trans-2,4-hexadiene.

b 2, 3-dimethylbut-2-ene

It does have geometrical isomers because there are two identical groups attached to the same carbon of the double bond.

