Class - B.Sc. Part I (Honours)
Subject - chemistry
Paper - IC
Topic - unsaturated alcohol (Allyl alcohol) continue

Name - Dr. Rashmi Sinha
Deptt. of chemistry
H. D. Jain college, Ara

Allyl alcohol (unsaturated alcohol)

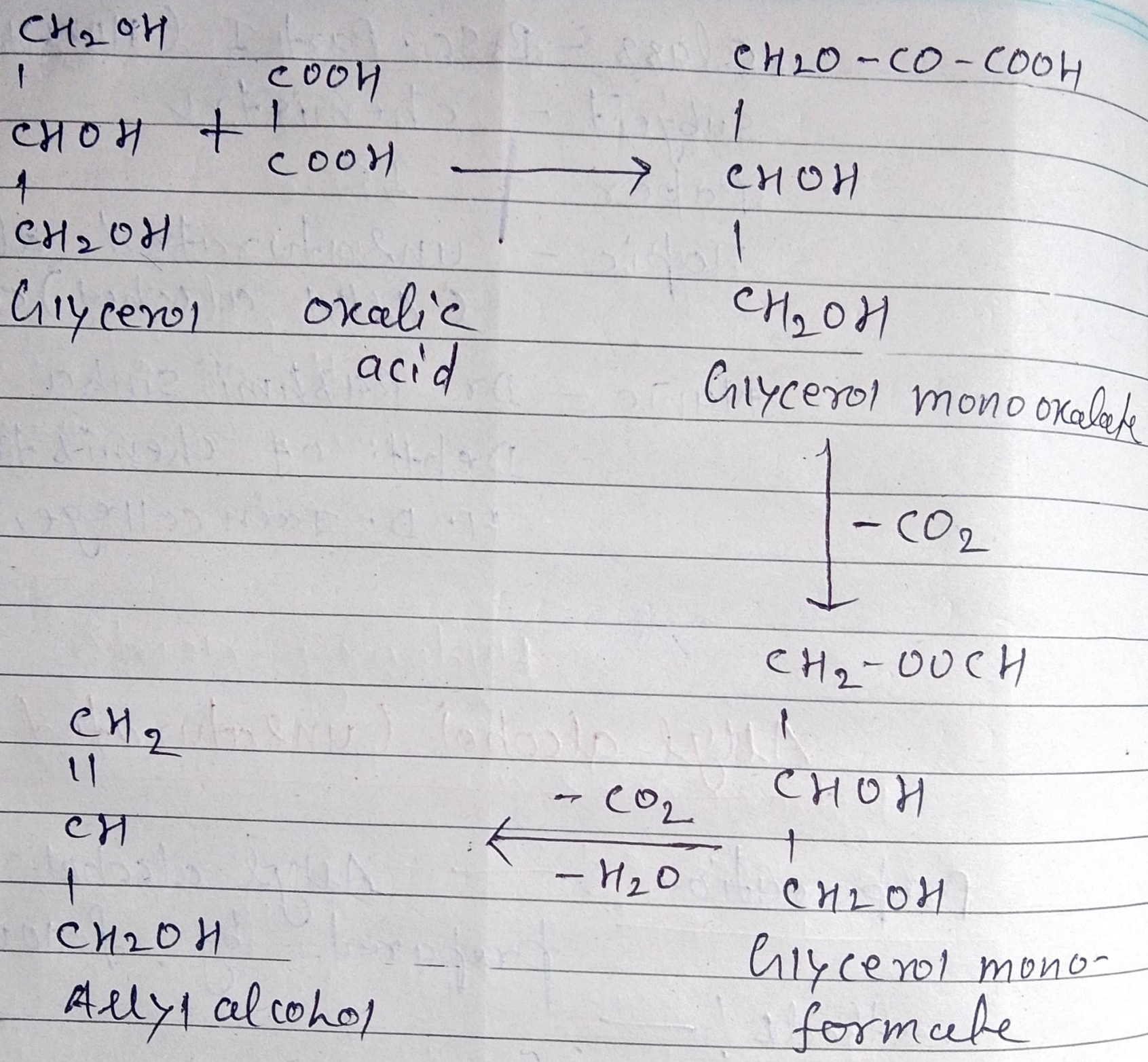
Preparation :— Allyl alcohol is prepared by following methods :—

(i) From Allyl chloride (commercial method)

It is prepared by the hydrolysis of allyl chloride with dilute and boil NaOH (alkali) solution under pressure.

$$\underset{\text{Allyl chloride}}{CH_2=CH-CH_2Cl} + H_2O \xrightarrow[150^\circ]{NaOH} \underset{\text{Allyl alcohol}}{CH_2=CH-CH_2OH} + HCl$$

(ii) From Glycerol :— Allyl alcohol is prepared by heating a mixture of glycerol and oxalic acid at 260°C.


CH2OH
CHOH
CH2OH
Glycerol
COOH
COOH
oxalic acid
CH2O-CO-COOH
CHOH
CH2OH
Glycerol monooxalate
-CO2
CH2-OOCH
CHOH
CH2OH
Glycerol monoformate
-CO2
-H2O
CH2
CH
CH2OH
Allyl alcohol