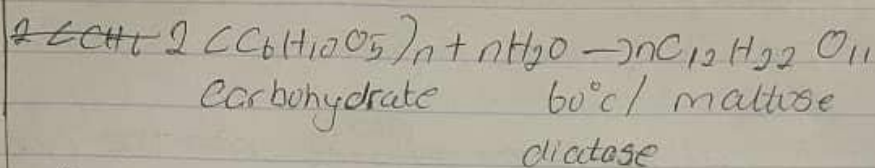
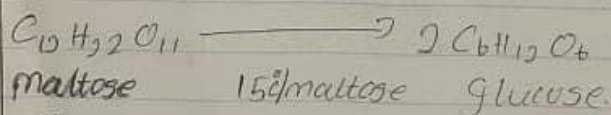


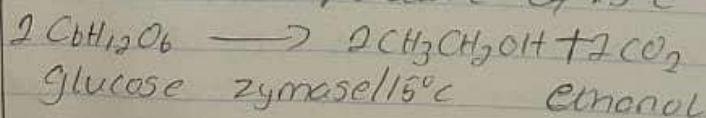
Potatoes, cereals and on warming with malt to 60°C for a specific period of time are converted into maltose by the enzyme diastase contained in the malt.



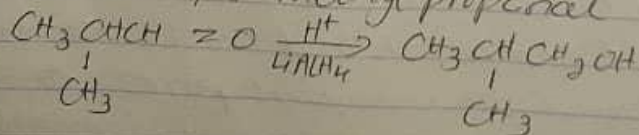
The maltose is broken down into glucose on addition of yeast which contains the enzyme maltase and at a temperature of 15°C



The glucose is broken down into alcohol on addition of yeast which contain the enzyme zymase and at constant temperature of 15°C



⑦ Reduction of 2-methyl propanal



2-methyl propanal

2-methyl propanol

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COURSE: CHEM 102

DEPARTMENT: MEDICINE ~~AND~~ ^{AND} SURGERY

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① Primary alcohol: is an alcohol with the number of hydrogen atom attached to the carbon atom bearing the hydroxyl group are two or three
Example: $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$ - propanol.

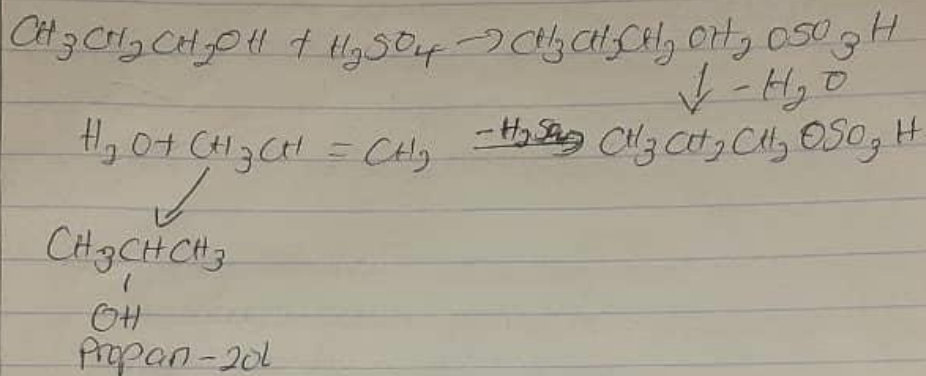
② Secondary alcohol: is an ~~alcohol~~ ^{alcohol} with the number of hydrogen atom attached to the carbon atom bearing the hydroxyl group is one
Example: $\text{CH}_3\text{CH}_2\text{CH}(\text{OH})\text{CH}_3$ - Butanol - 2-ol

③ Tertiary alcohol: is an alcohol with the number of hydrogen atom attached to the carbon atom bearing the hydroxyl group is zero
Example: $\text{C}(\text{CH}_3)_3\text{OH}$ - 2-methylpropan-2-ol

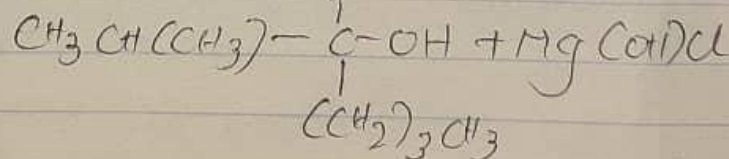
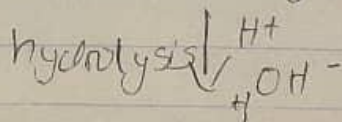
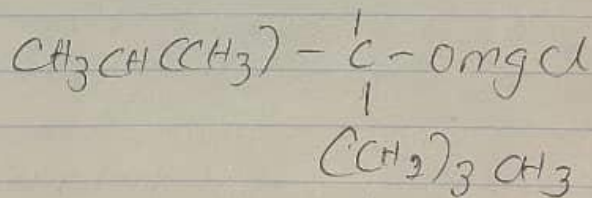
2) Solubility of alcohol: Lower alcohol in their molecules are soluble in water because these lower alcohols are form hydrogen bond with water molecules. The solubility of alcohol in water decreases with increasing relative molecules mass.

3) Carbohydrate: Such as starch are major group of natural compound that can be made to yield ethanol by biological process of fermentation by biological process of fermentation. Enzymes in yeast break down the carbohydrate molecules into ethanol to give a yield of 95%. The starch containing materials, include,

③ A scheme for conversion of propan-1-ol to prop-
an-2-ol



④ $(\text{CH}_3\text{CH}(\text{CH}_3))\text{COCl} + (\text{CH}_2)_3\text{MgCl}$



~~2-methyl prop.~~

(2-methylheptan-2-ol)