

Important Questions

1.

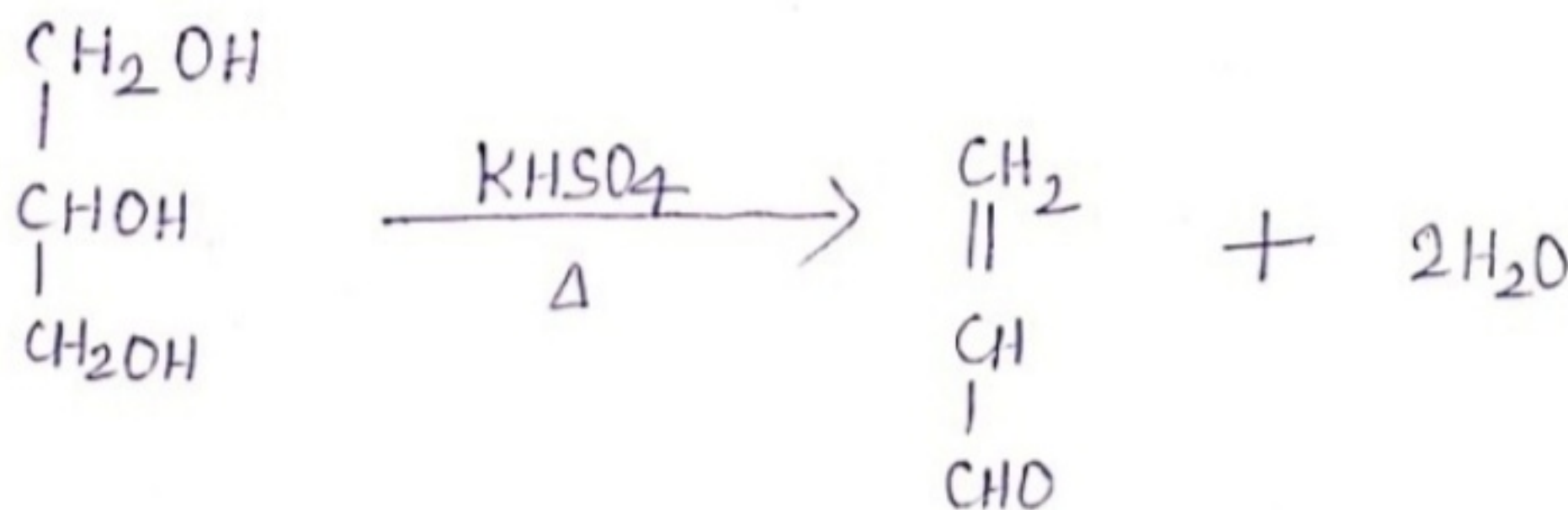
By:-Dr.Rinky (From Previous year) 16/10/2020

For Degree-I(Hons.)

What happens when :-

Glycerol is heated with KHSO₄

Ans. Glycerol on heating with KHSO₄, undergoes dehydration with removal of two water molecule from the glycerol molecule. Hence, resulting in formation of unsaturated aldehyde acrolein which has a bad odour.



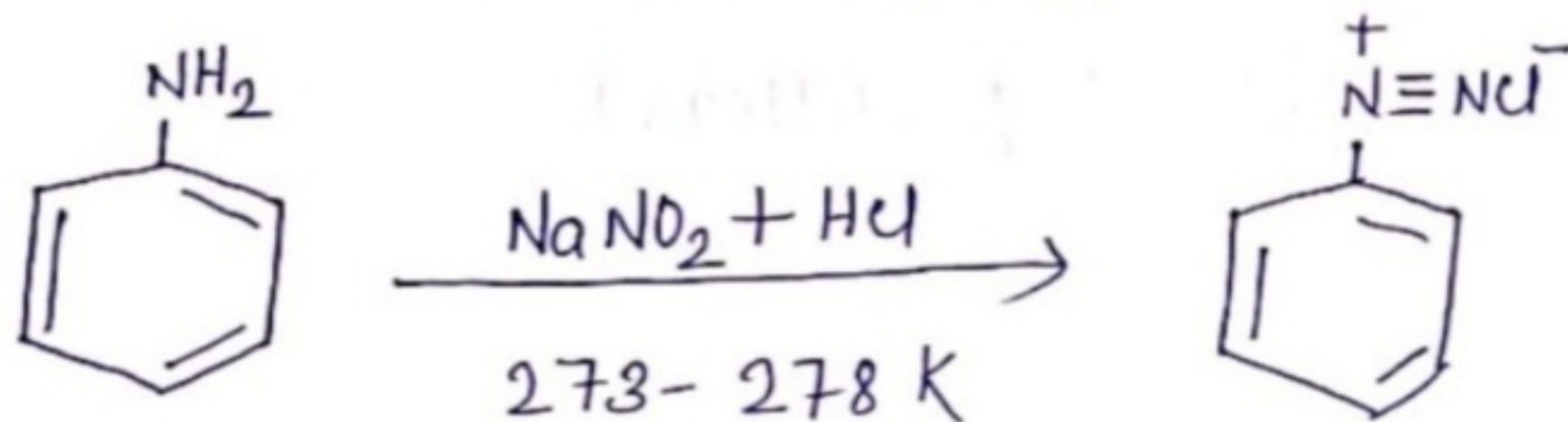
Acrolein

(Acraldehyde)

Aniline is treated with NaNO₂ and HCl in ice cold bath.

Ans. On treating with NaNO₂ and HCl in ice cold bath, aniline undergoes diazotization reaction and yields stable

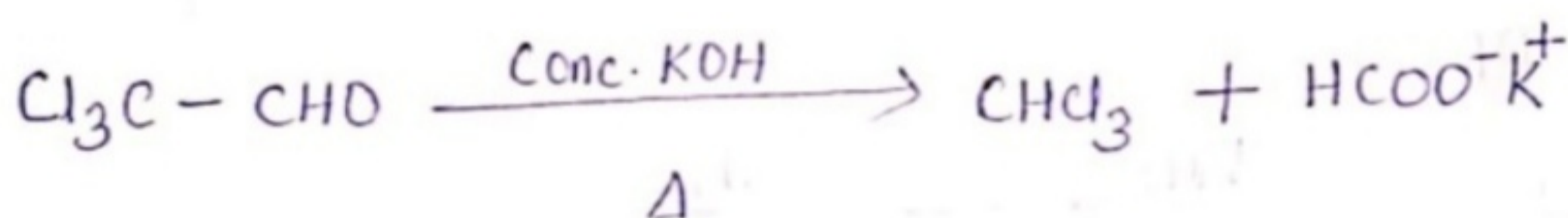
benzene diazonium chloride.



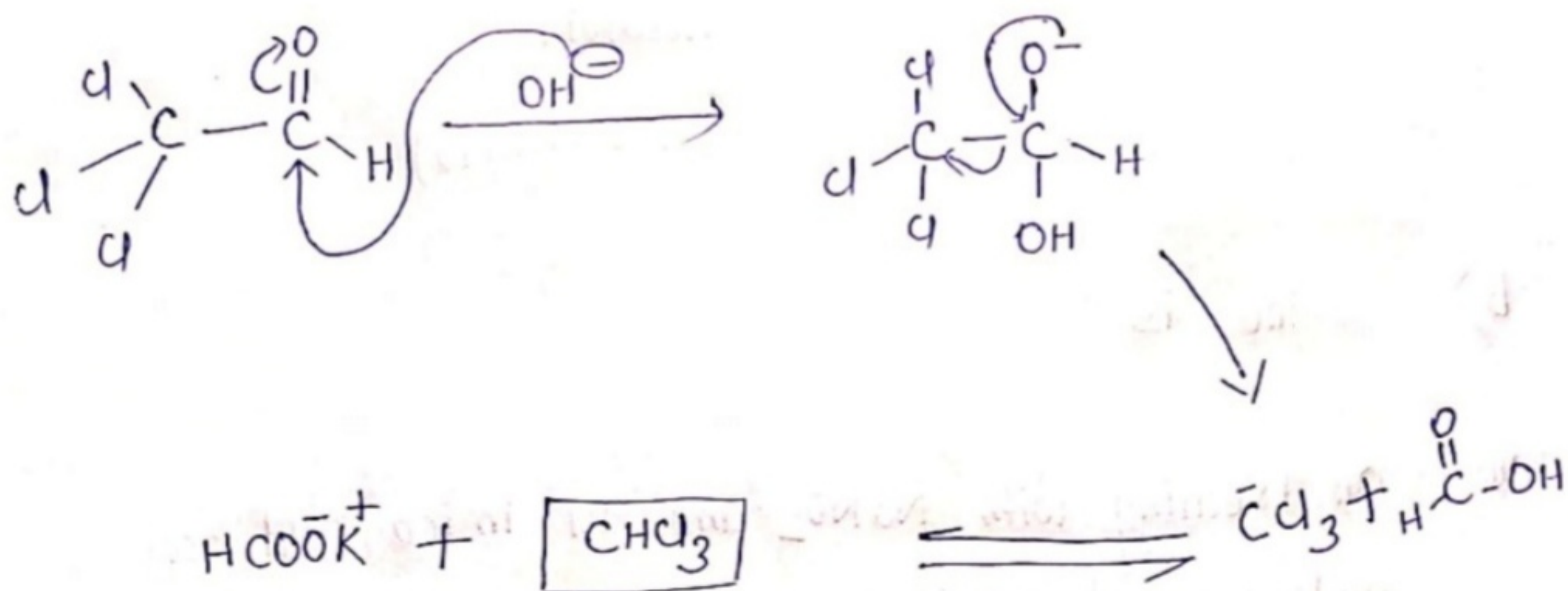
**Benzene diazonium
Chloride**

**Trichloroacetaldehyde is treated with Conc
KOH.**

Ans. When Trichloroacetaldehyde (chloral) is heated with conc. KOH, it yields chloroform and potassium formate. This is haloform reaction.



Mechanism

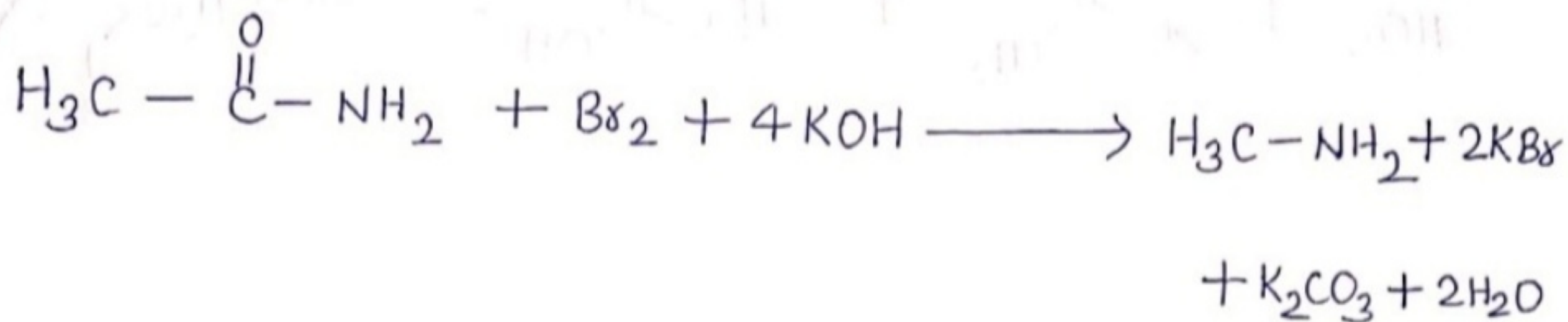


Acetamide is treated with Br₂/KOH

3.

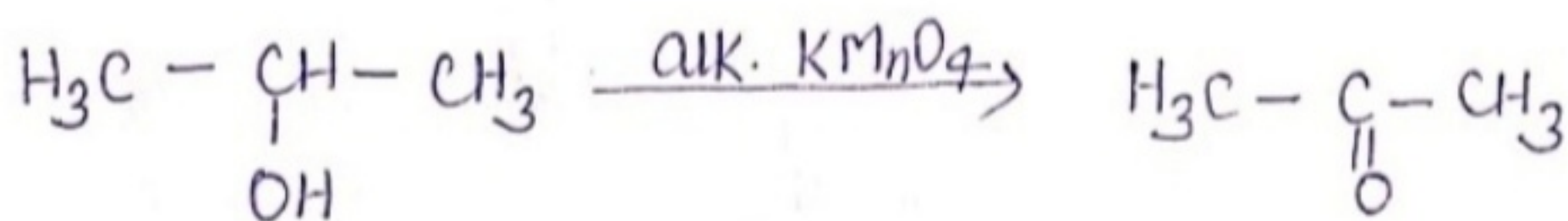
Ans. Acetamide, when treated with bromine in the presence of potassium hydroxide solution, methyl amine is formed.

This reaction is known as Hofmann bromamide reaction.



Isopropyl alcohol is Oxidised.

Ans. When isopropyl alcohol is oxidised, it produces acetone.



Isopropyl alcohol

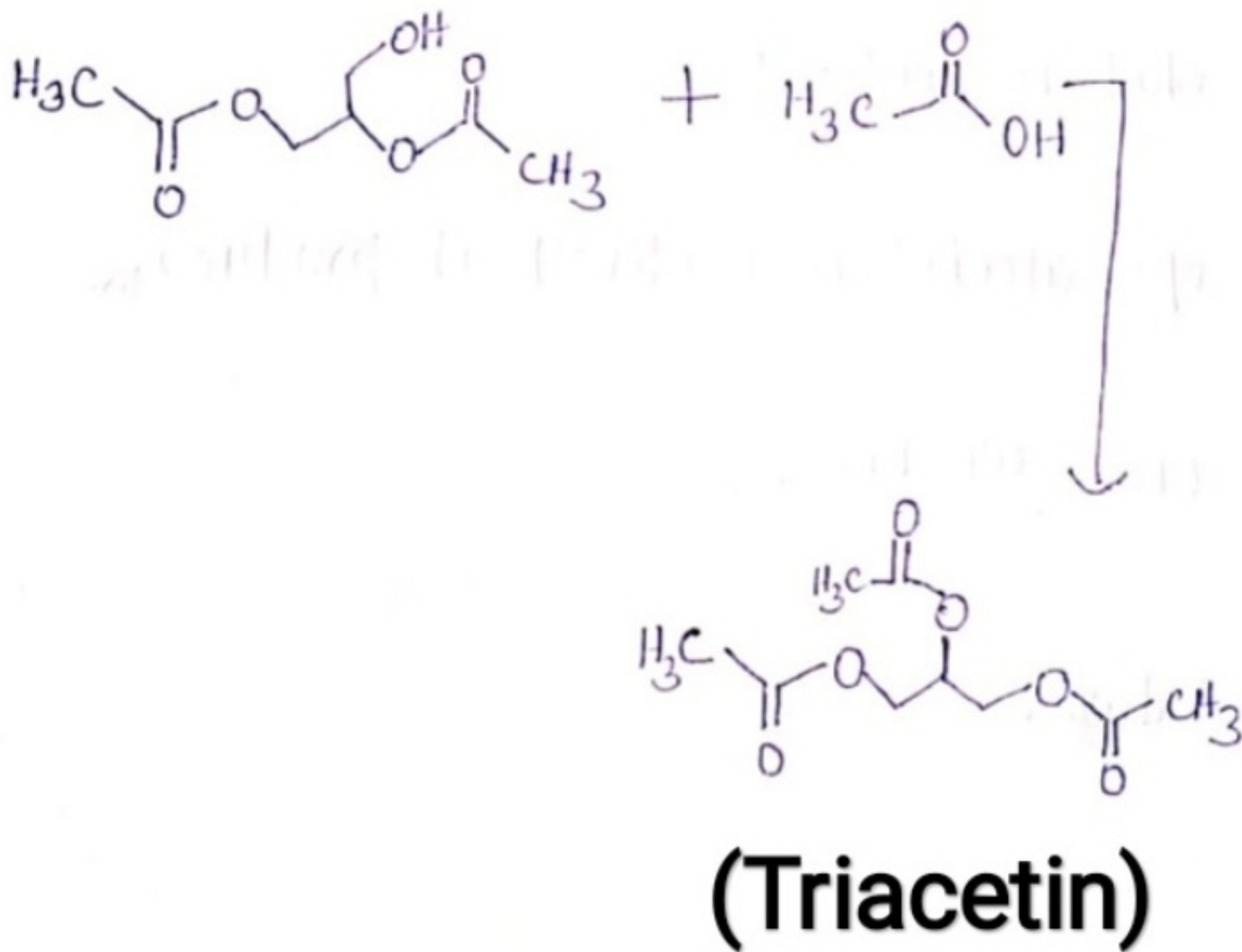
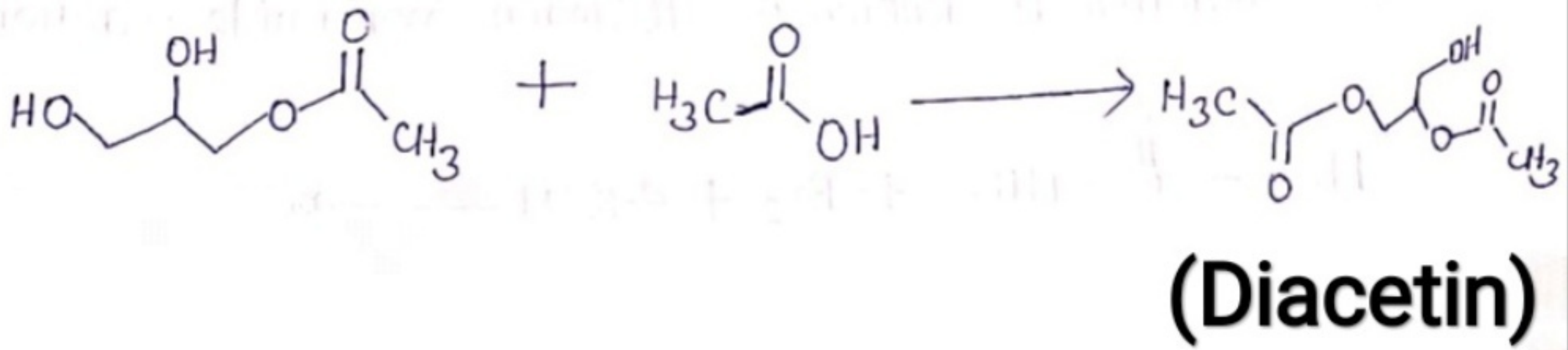
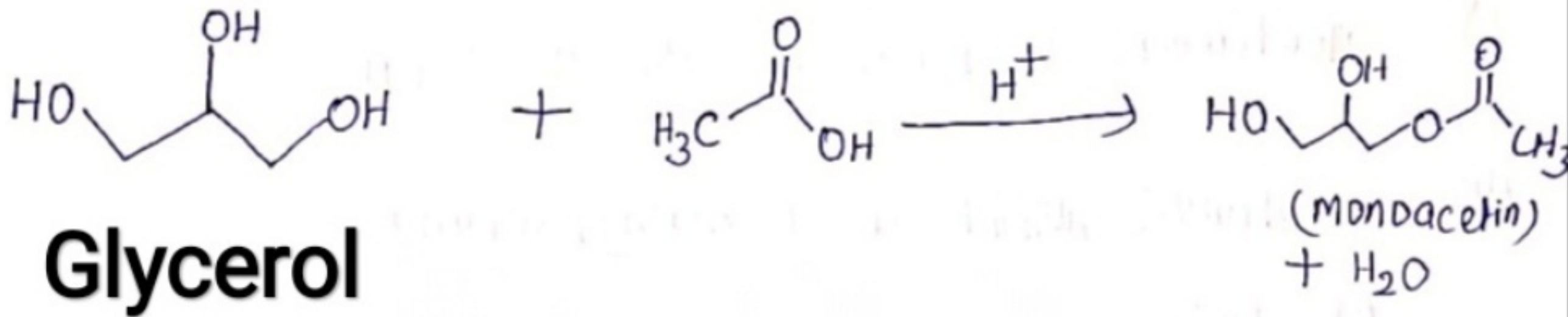
Propanone

Glycerol is treated with ethanoic acid.

Ans. When glycerol is treated with acetic acid then

monoacetyl glycerol, diacetyl glycerol and triacetyl glycerol will form.

4.



Completed...