

Important Questions

1.

(From Previous year)

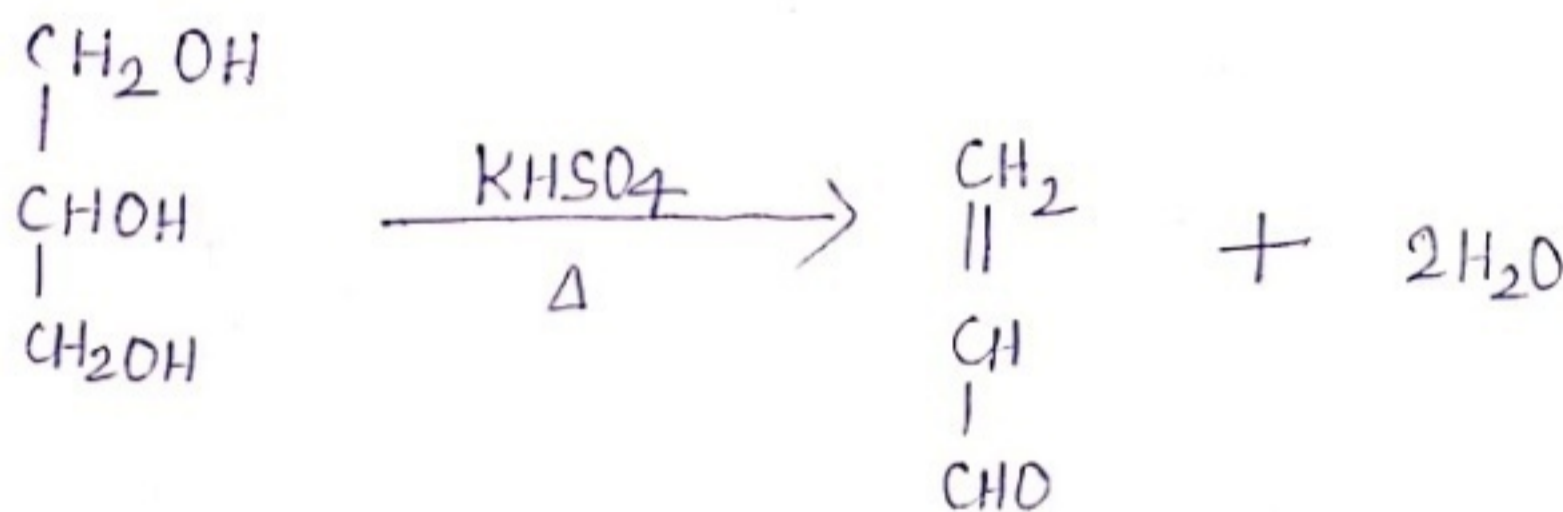
For Degree-I(Hons.)

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23-07-2020

What happens when :-

Glycerol is heated with KHSO_4

Ans. Glycerol on heating with KHSO_4 , 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.



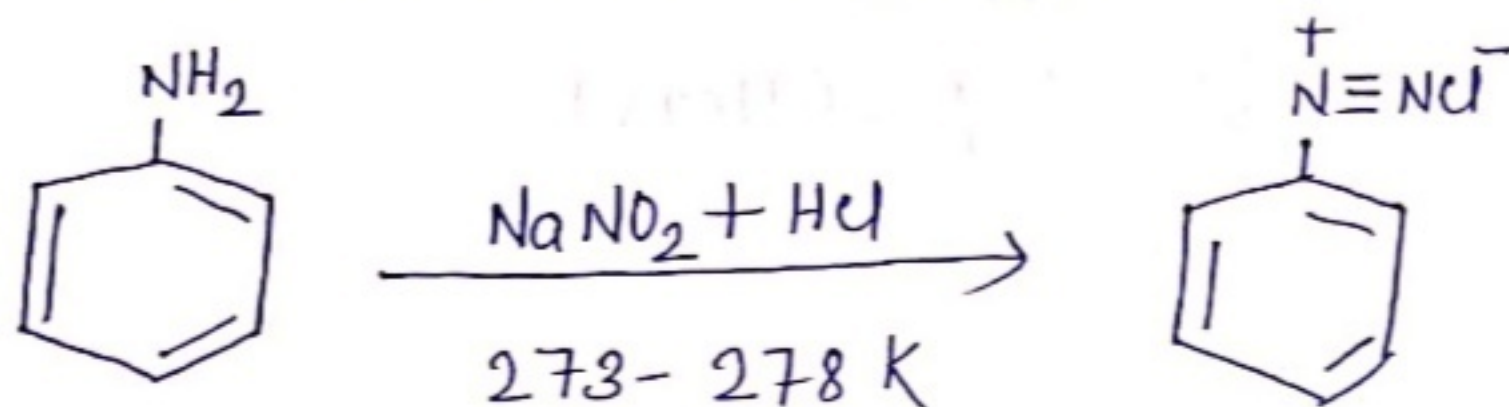
Acrolein

(Acraldehyde)

Aniline is treated with NaNO_2 and HCl in ice cold bath.

Ans. On treating with NaNO_2 and HCl in ice cold bath, aniline undergoes diazotization reaction and yields stable

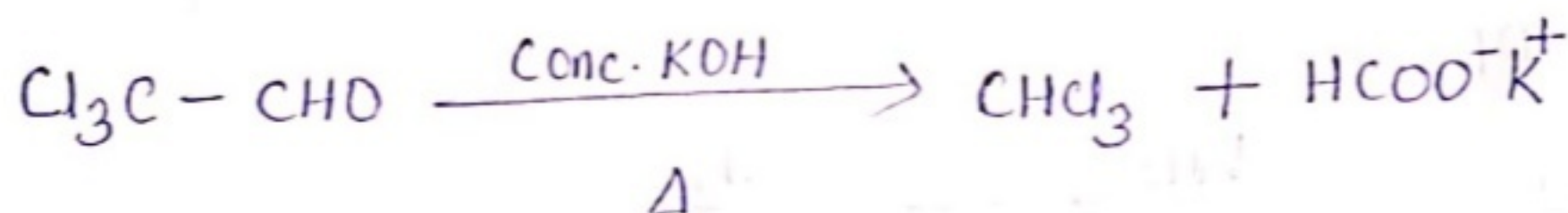
benzene diazonium chloride.



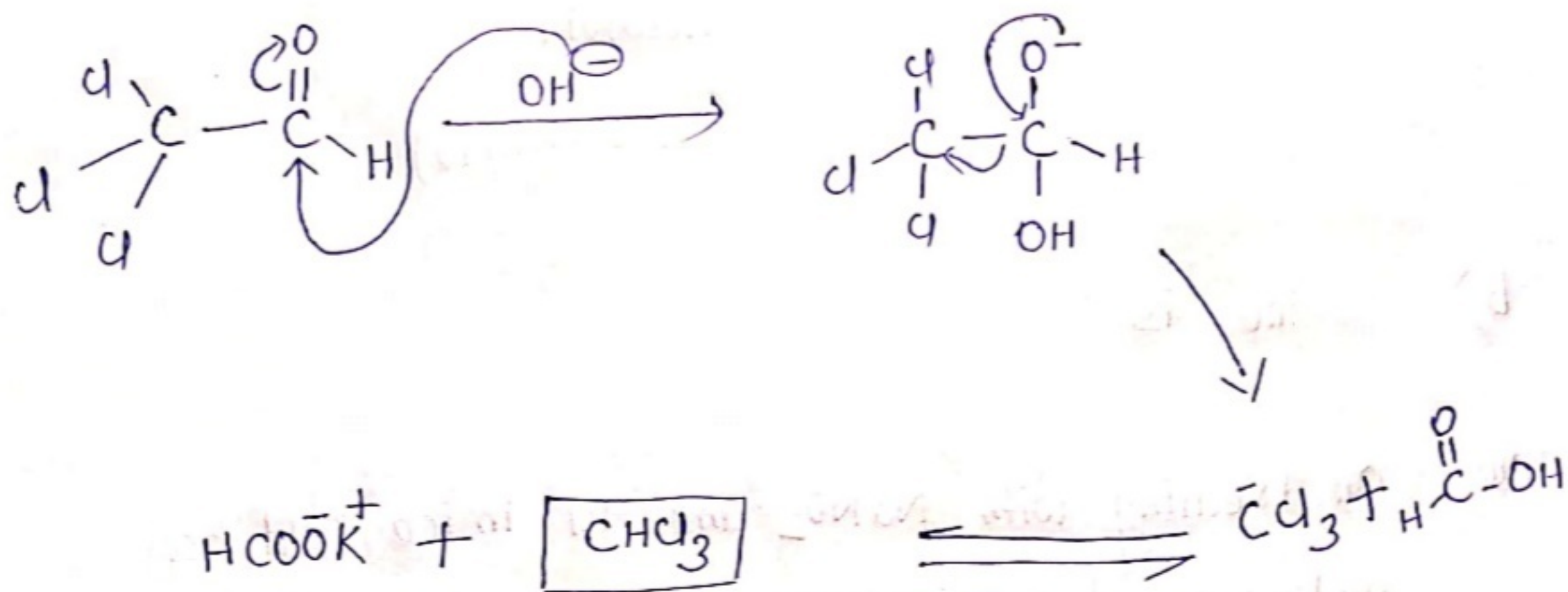
**Benzene diazonium
Chloride**

**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

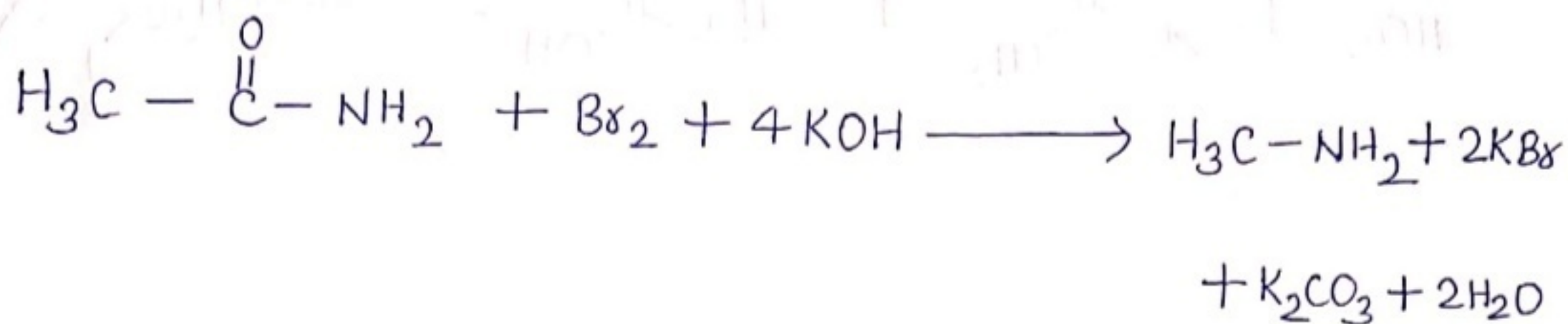


Acetamide is treated with Br₂/KOH

3.

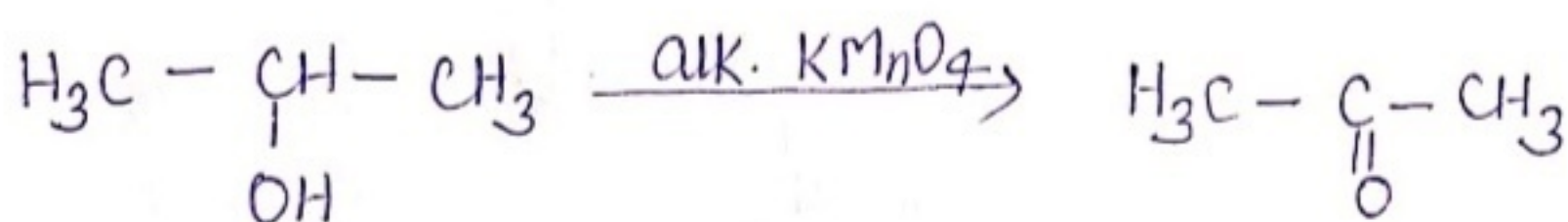
Ans. Acetamide, when treated with bromine in the presence of potassium hydroxide solution, methyl amine is formed.

This reaction is known as Hofmann bromamide reaction.



Isopropyl alcohol is Oxidised.

Ans. When isopropyl alcohol is oxidised, it produce 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.

