

HALOALKANES AND HALOARENES

Class - XII
Unit - 10

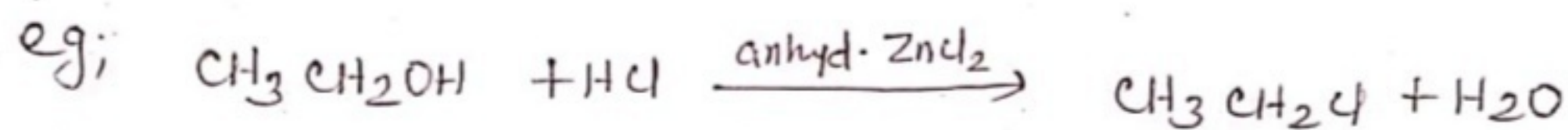
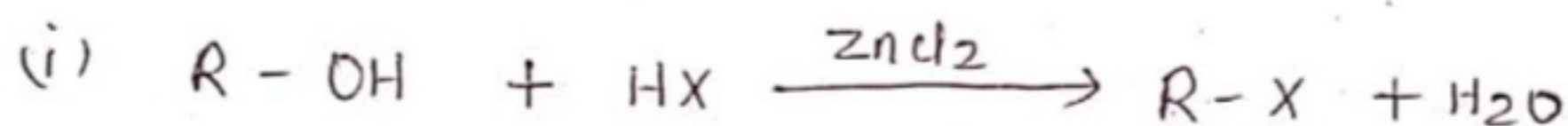
Lecture - 3

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12-05-2020

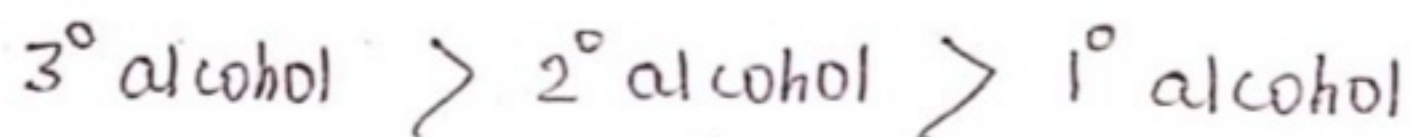
TOPIC - METHODS OF PREPARATION OF

" HALOALKANE "

1. From Alcohols

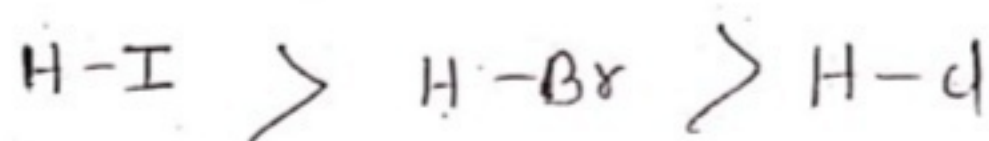


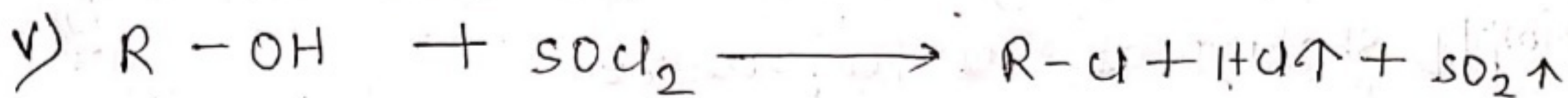
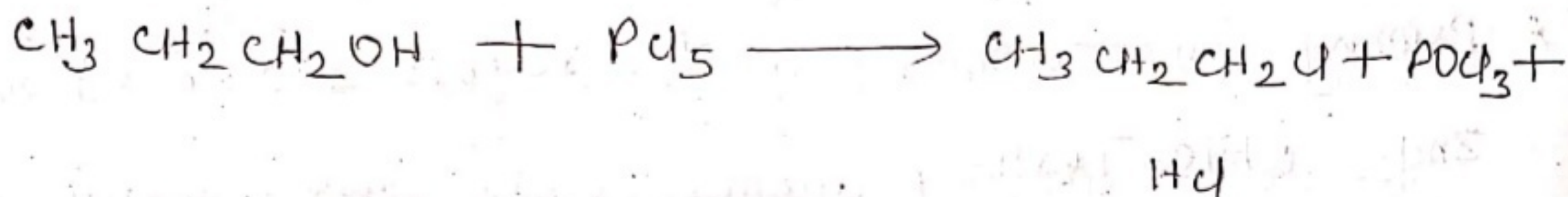
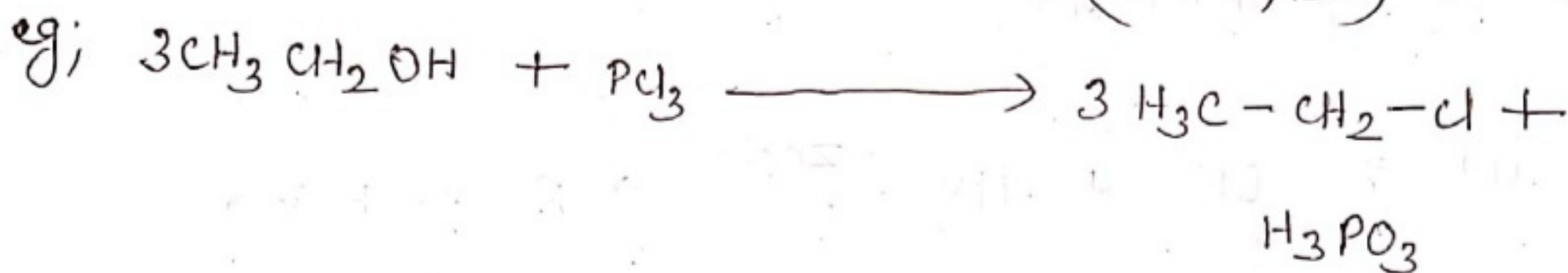
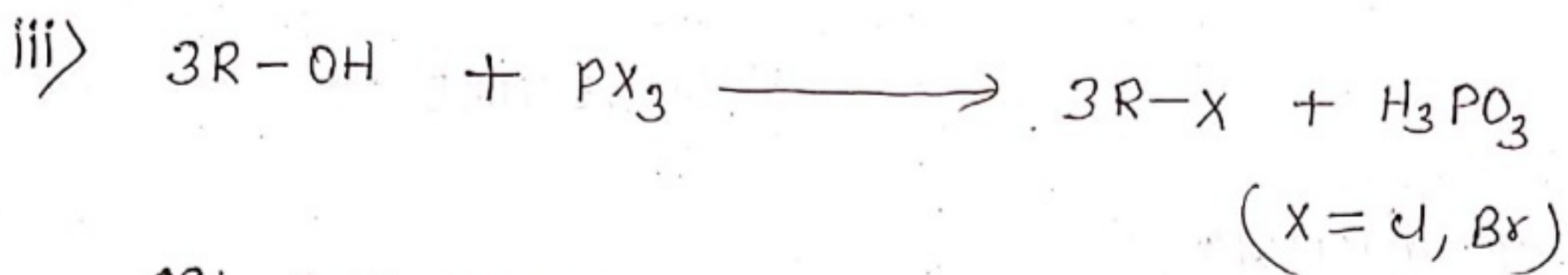
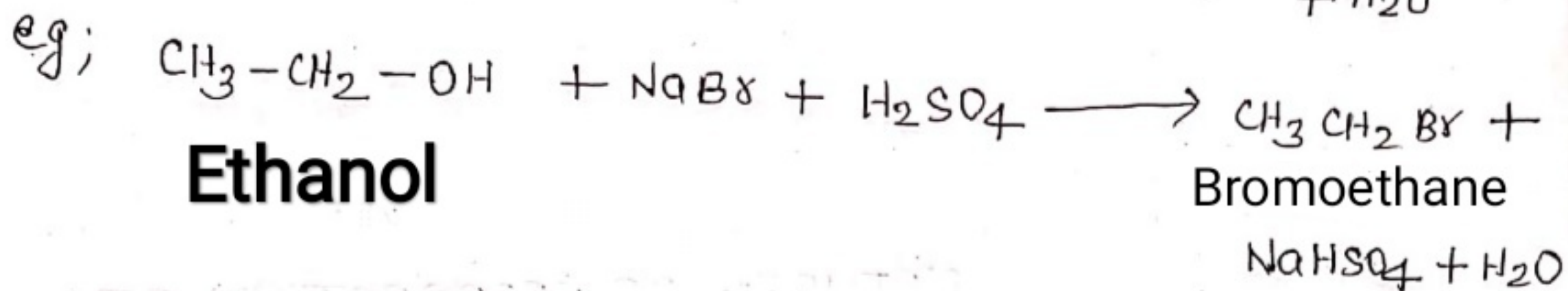
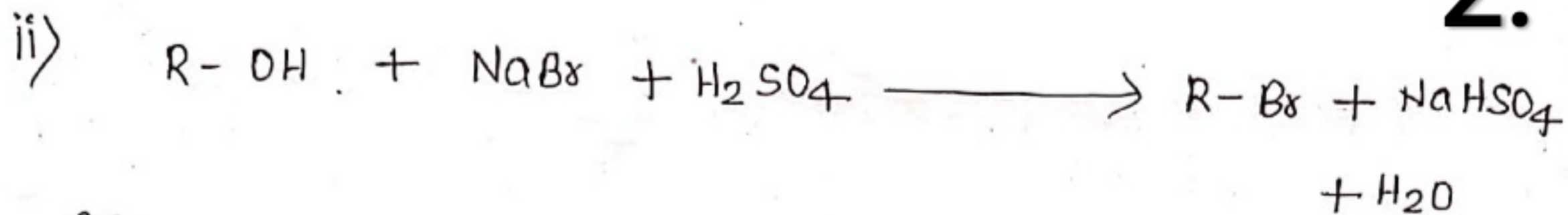
Reactivity of Alcohol



* Primary and secondary alcohol requires catalyst anhyd. $ZnCl_2$ while Tertiary alcohol reacts with conc. HCl by simply shaking at room temperature.

Reactivity of HX





Thionyl chloride

3.

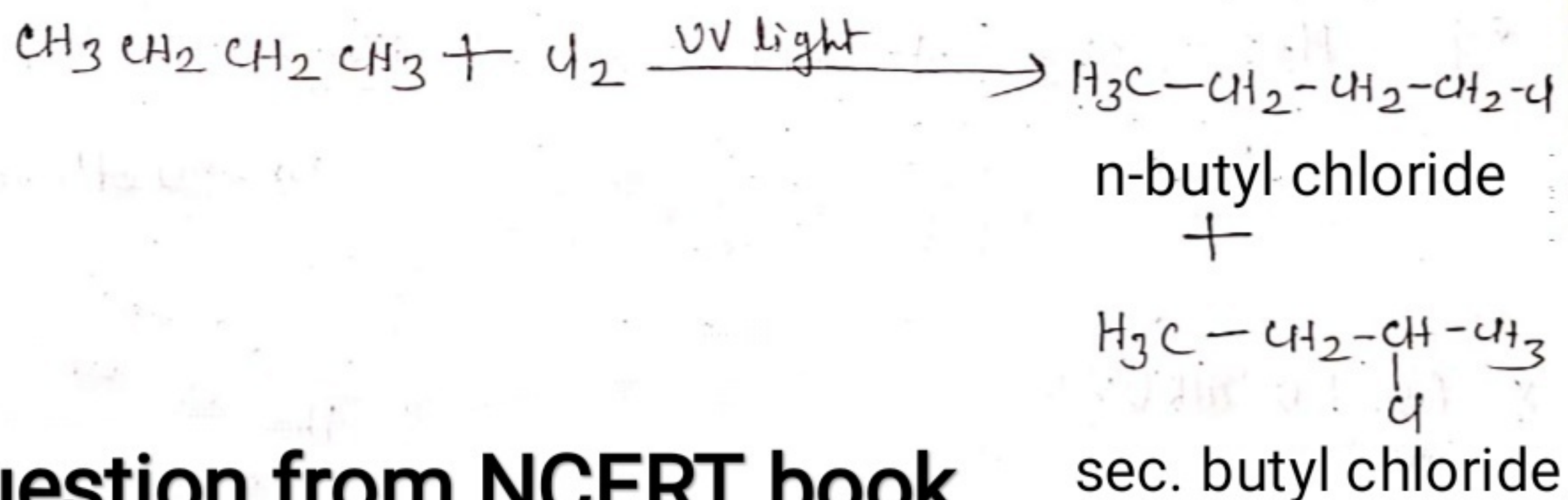
Q. Thionyl chloride is prepared for the Preparation of chloroethane from ethanol. Give reason.



Because, BOTH byproduct in this reaction is escapable gas, and chloroethane prepared in almost pure state.

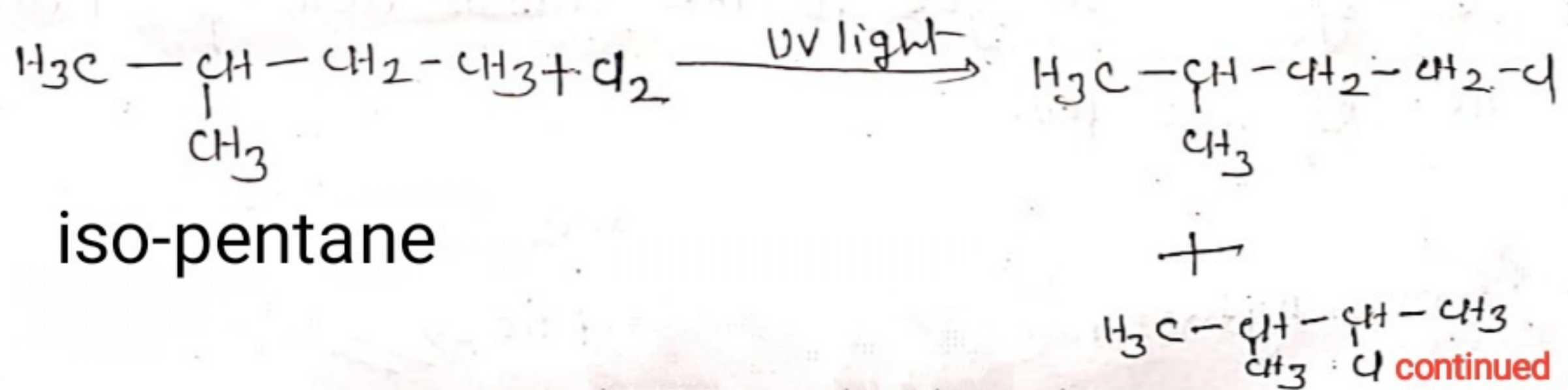
2. From Hydrocarbon

a. By Free Radical Halogenation



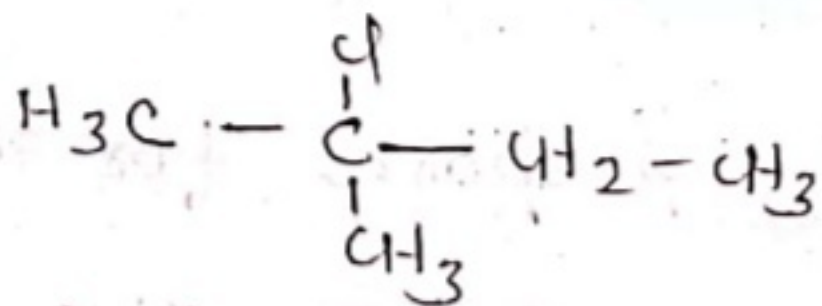
Question from NCERT book

Ex- 10.3

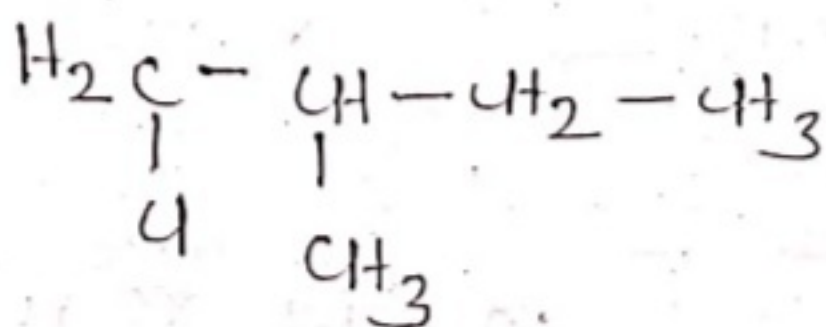


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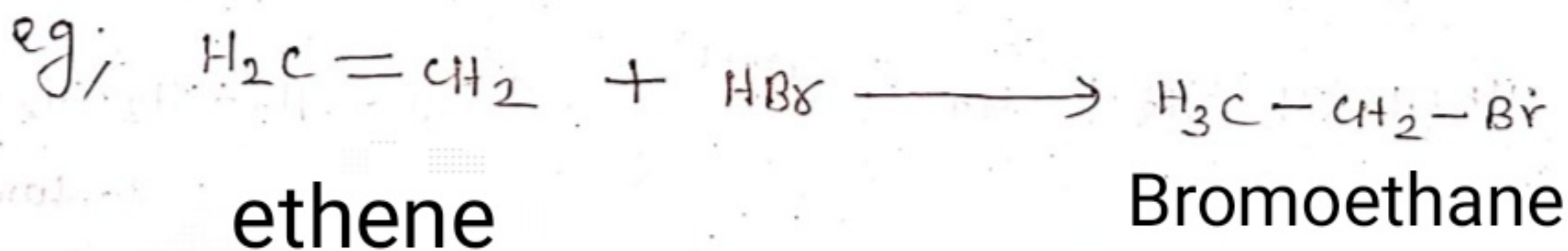
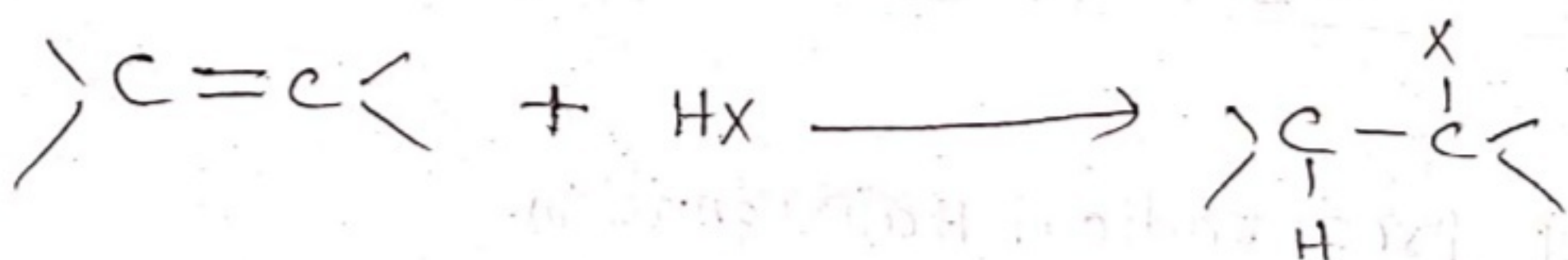


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4.

b. By Addition Of Hydrogen Halide To Alkene



Markovnikov's Rule

During addition to unsymmetrical alkene, the +ve part of addenda goes to the carbon bearing greater no. of Hydrogen.

ie; Hydrogen goes to the carbon having more Hydrogen (rich becomes richer.)

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