

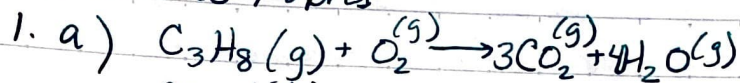
Answer Key

No.

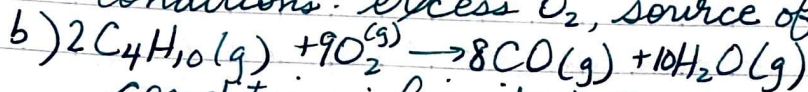
Date

IB Chemistry Organic Exms Review Worksheet

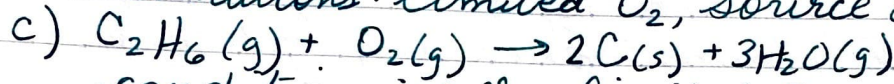
Alkane Rxns



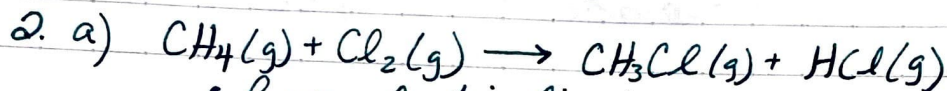
conditions: excess O_2 , source of ignition



conditions: limited O_2 , source of ignition



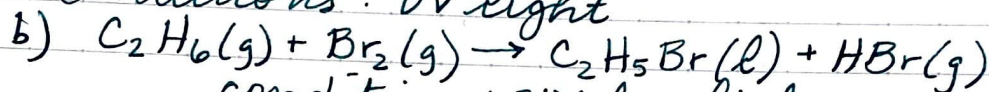
conditions: very limited O_2 , source of ignition



• homolytic fission

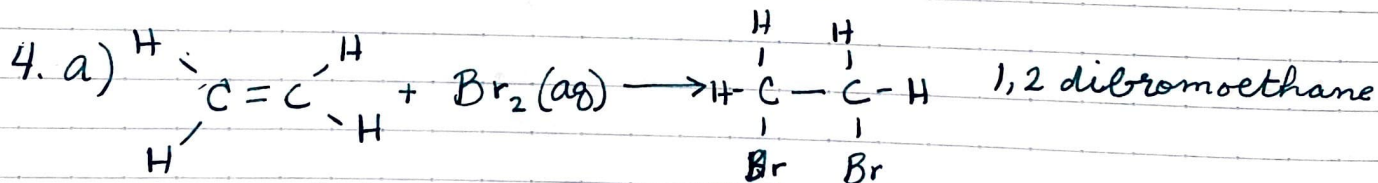
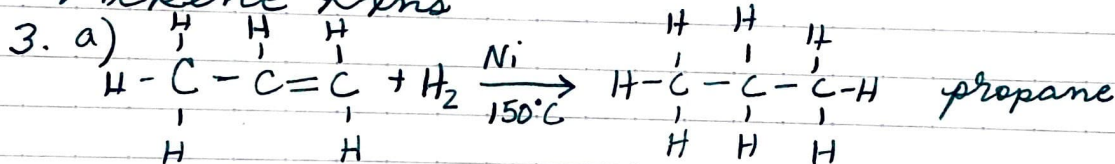
• chloromethane (CH_3Cl)

conditions: UV light

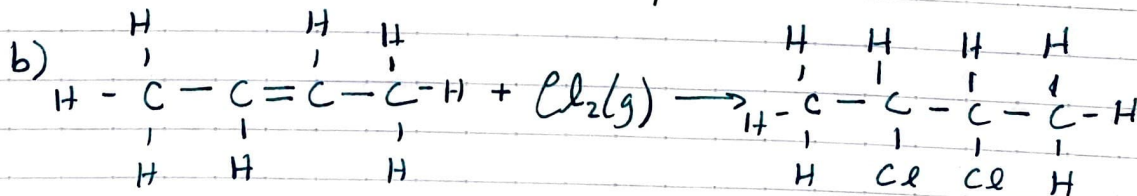


conditions: UV light

Alkene Rxns

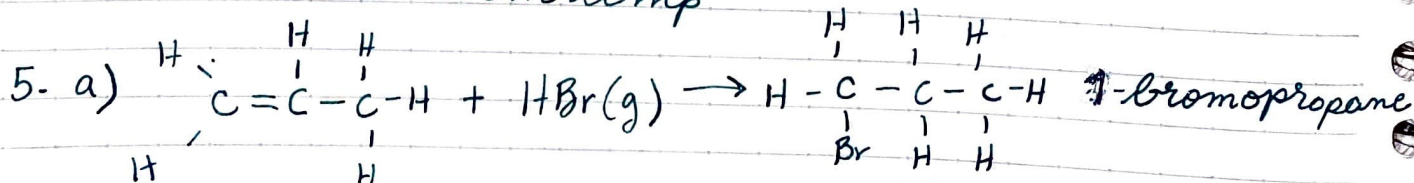


conditions: room temp

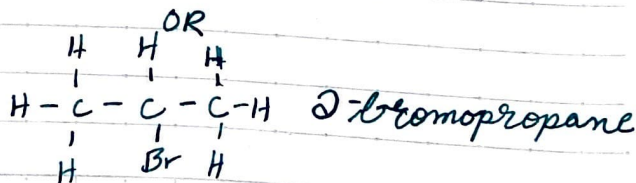


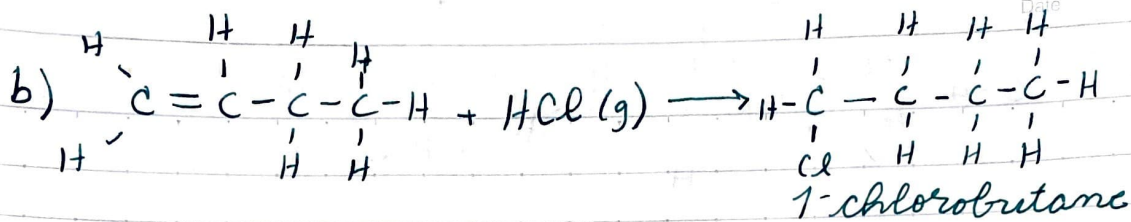
2,3 dichlorobutane

conditions: room temp

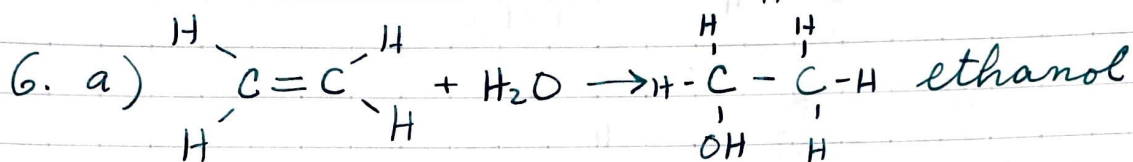
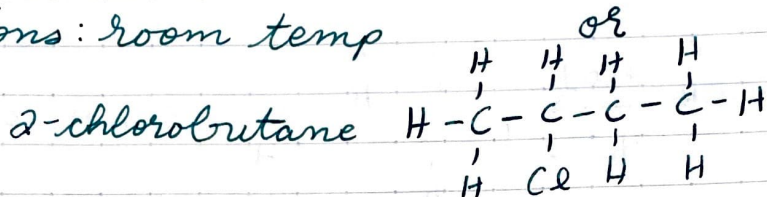


conditions: room temp

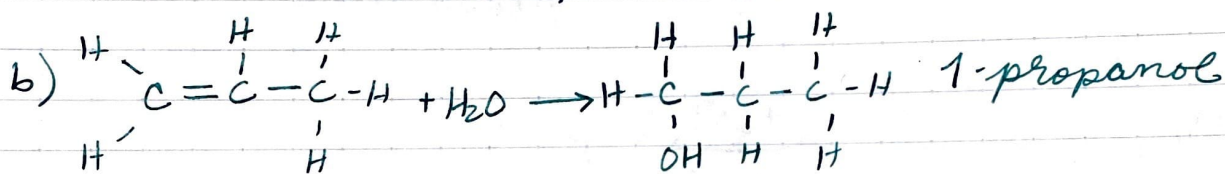




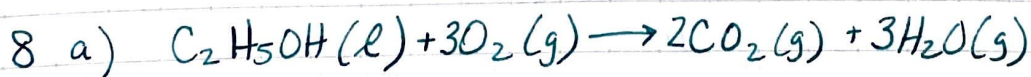
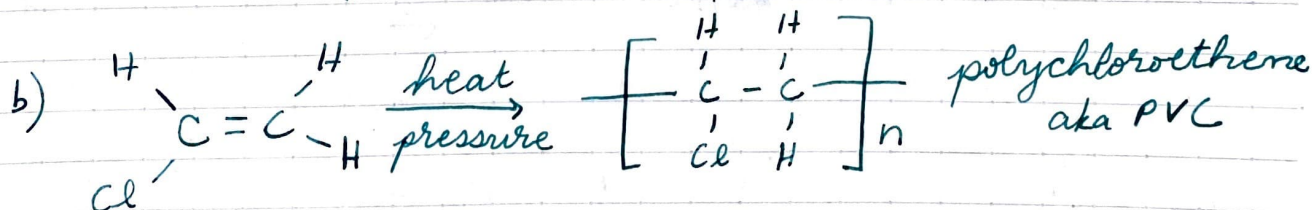
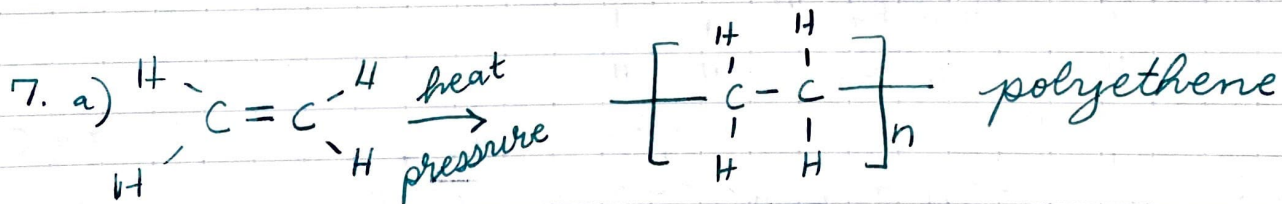
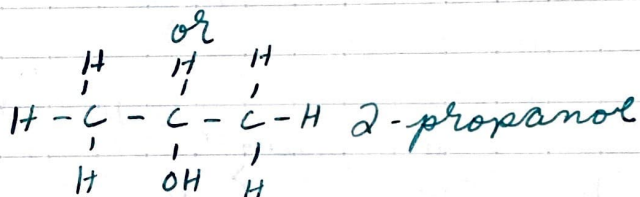
conditions: room temp



conditions: H_2SO_4 , heat, pressure

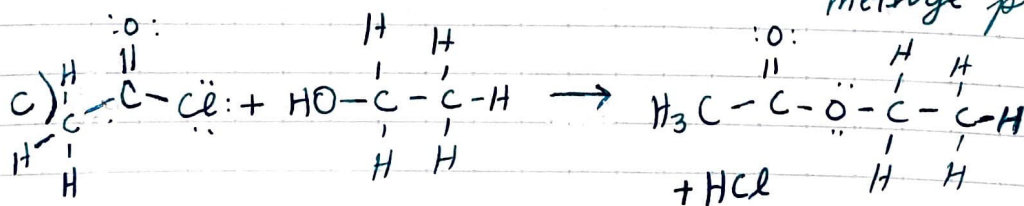
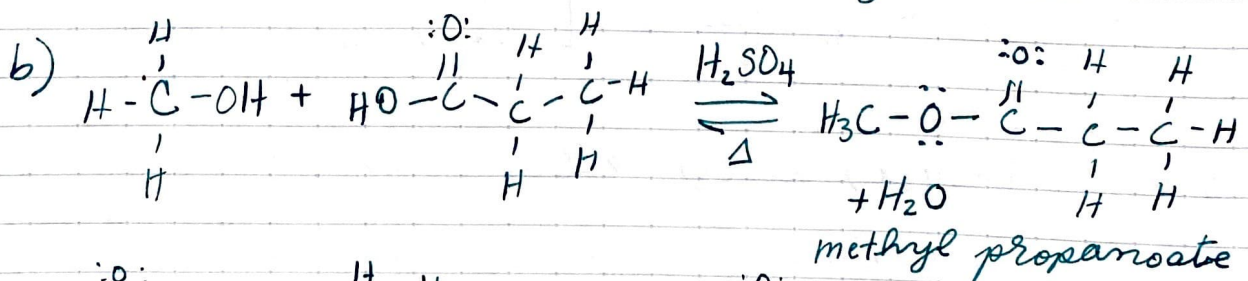
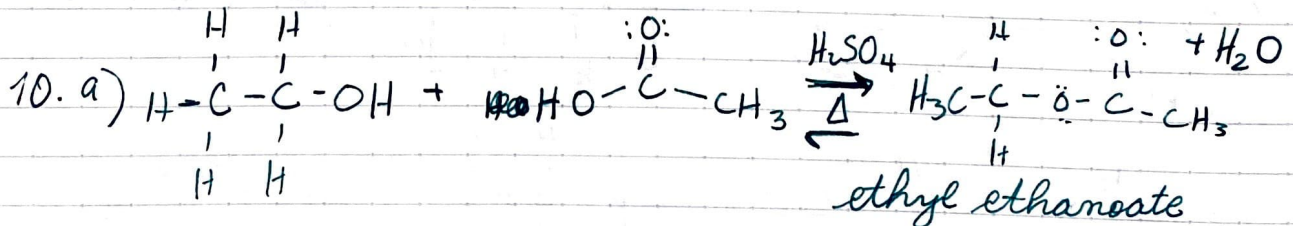
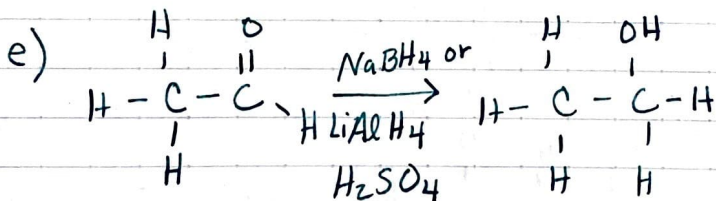
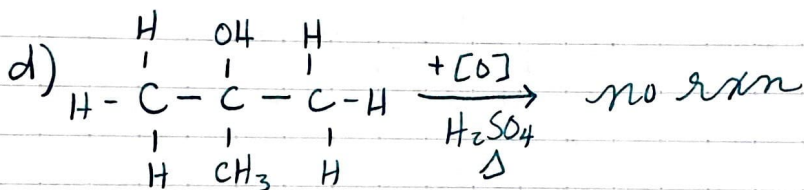
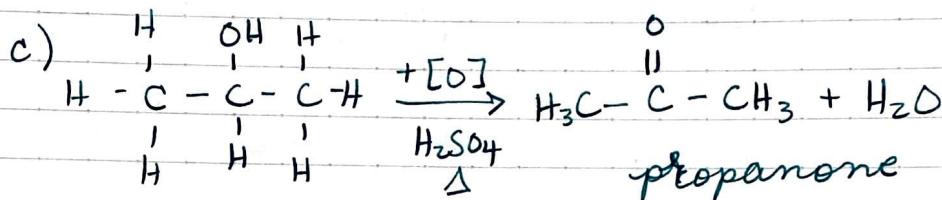
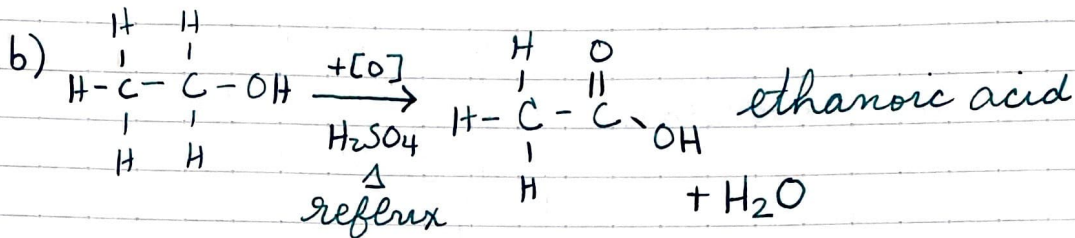
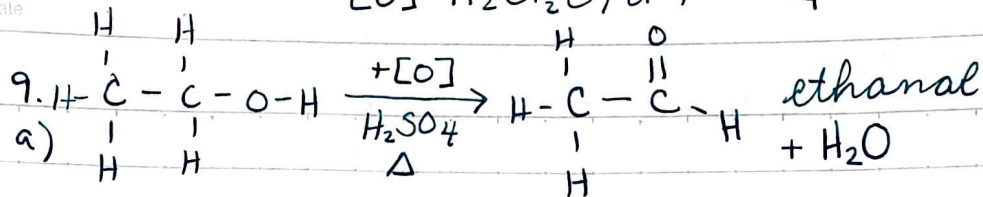


conditions: H_2SO_4 ,
heat, pressure



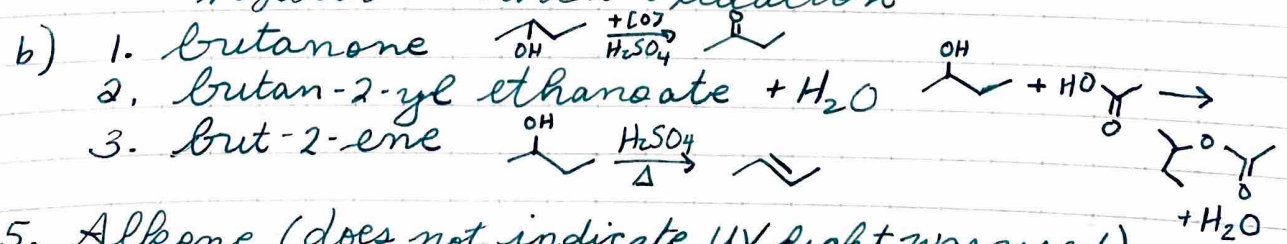
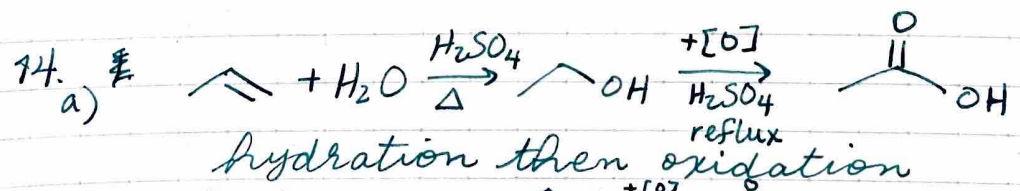
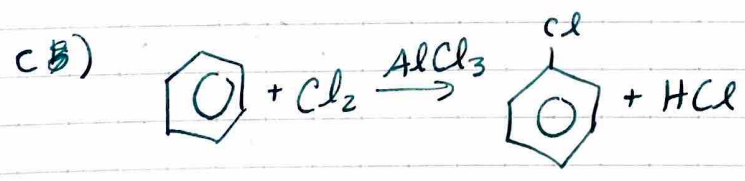
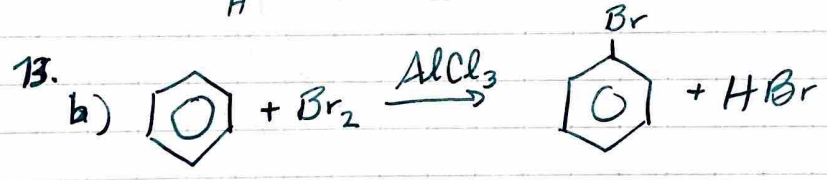
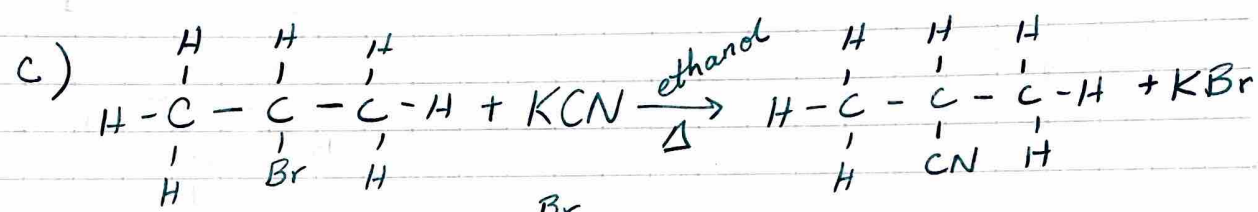
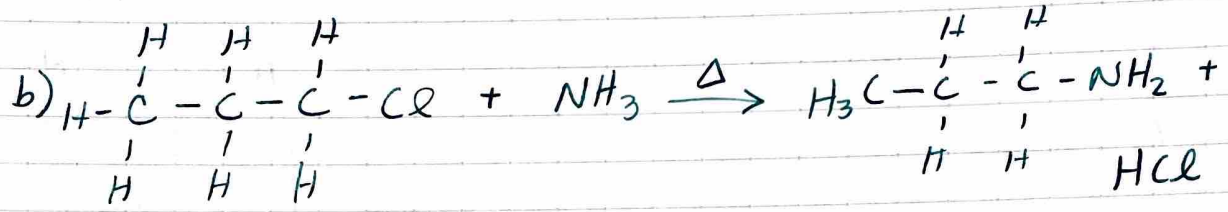
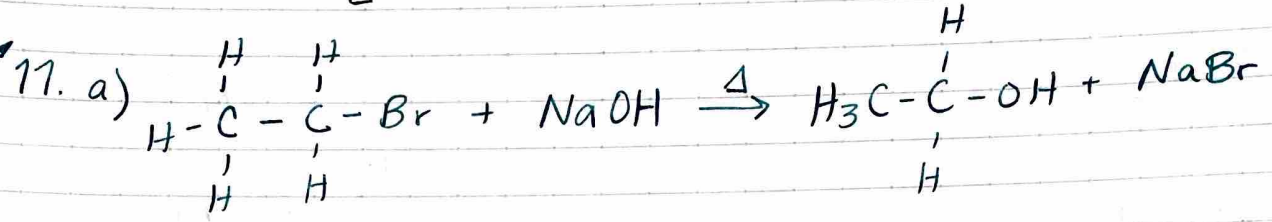
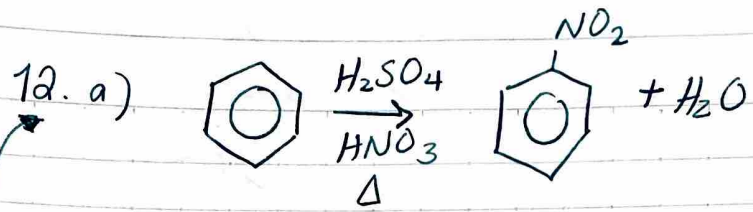
conditions: excess O_2 , ignition source

[O]: $K_2Cr_2O_7$ or $KMnO_4$



Conditions: room temp

no catalyst needed \rightarrow Cl is better leaving group than OH



15. Alkene (does not indicate UV light was used)
a) decolorization indicates addition to alkene
CC=CC or CC=CC or CC=C

b) tertiary alcohols since they do not readily undergo oxidation
CC(C)(O)C