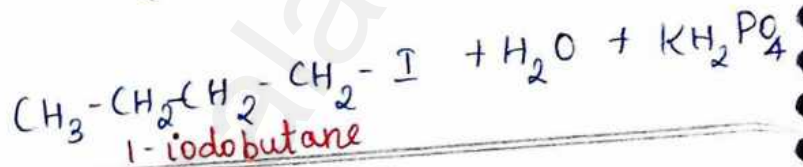
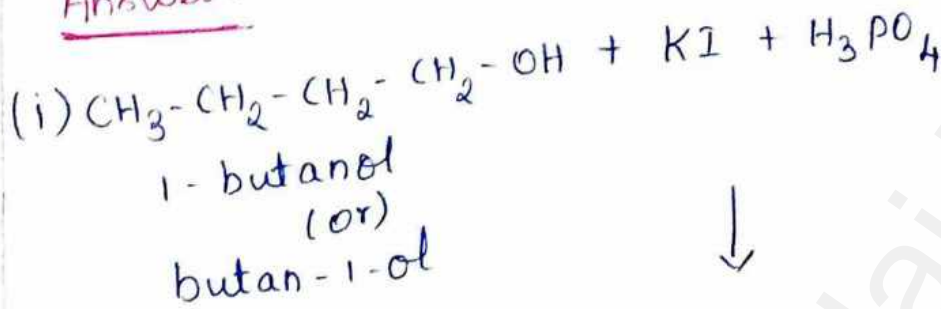


Unit 10 - Haloalkanes & Haloarenes.
Exercises [Conversions related Questions]

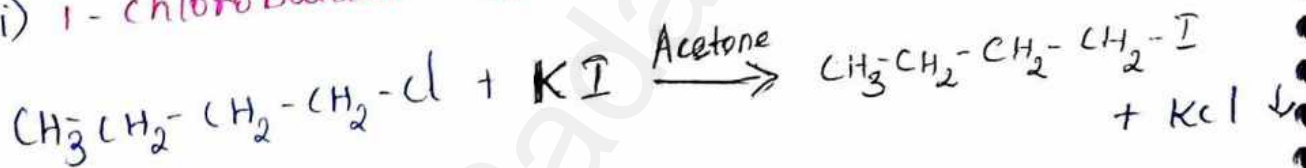
Question: 10.1

Write the equations for the preparation of
1-iodobutane from
(i) butan-1-ol (ii) 1-chlorobutane (iii) but-1-ene
(i) butan-1-ol to 1-iodobutane.

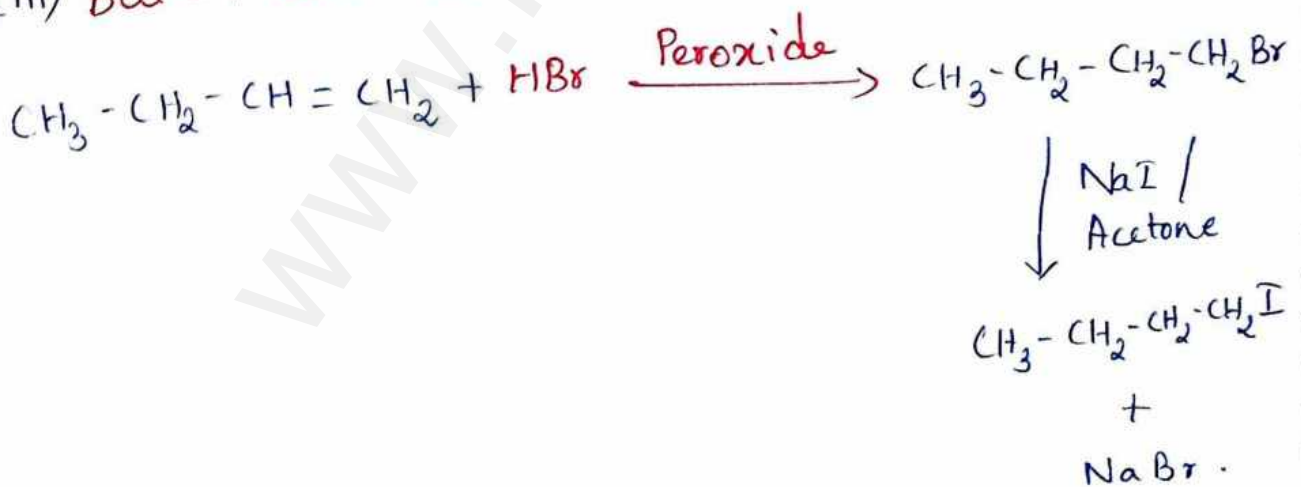
Answer:



(ii) 1-chlorobutane to 1-iodobutane



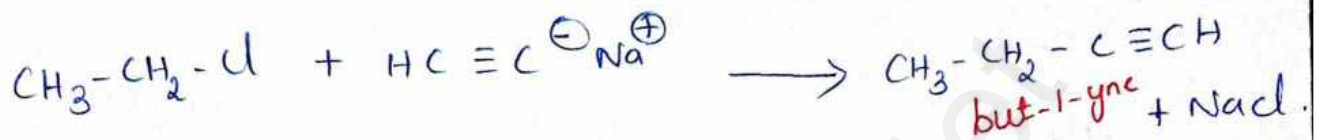
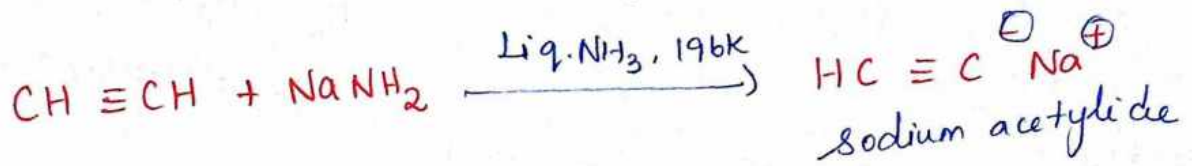
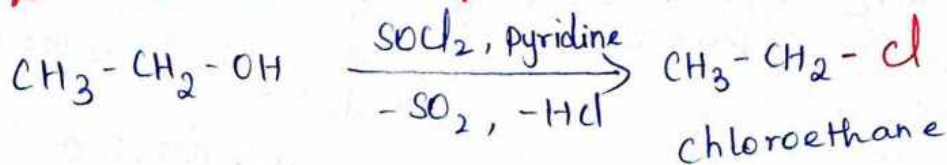
(iii) but-1-ene to 1-iodobutane



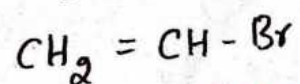
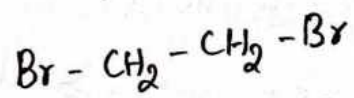
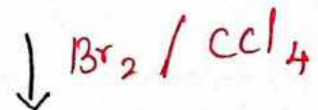
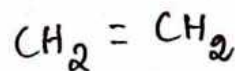
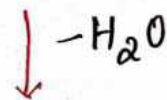
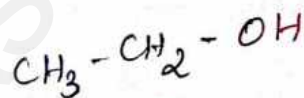
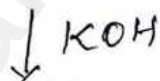
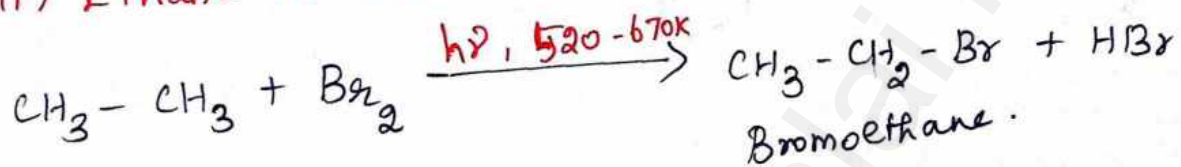
①

10.11. How will you bring about the following conversions?

(i) Ethanol to but-1-yne.



(ii) Ethane to bromoethene.

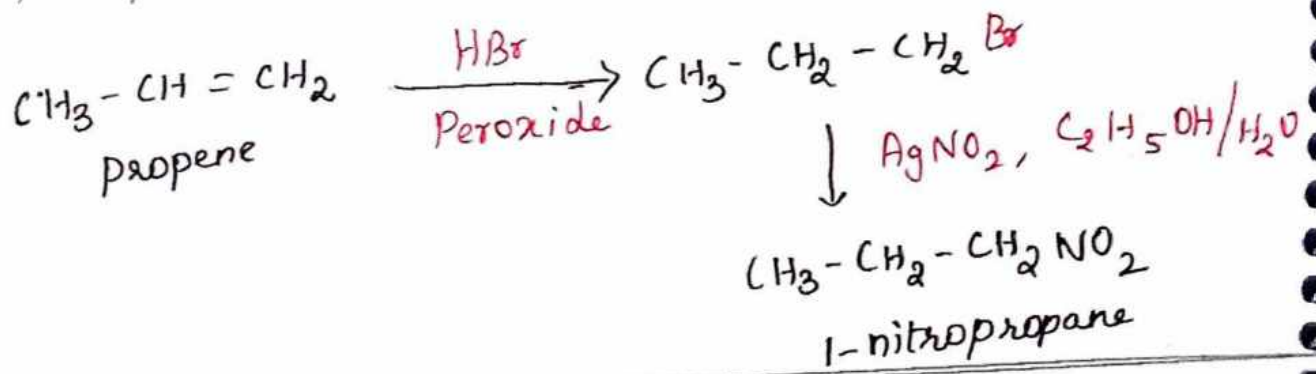


Bromoethene.

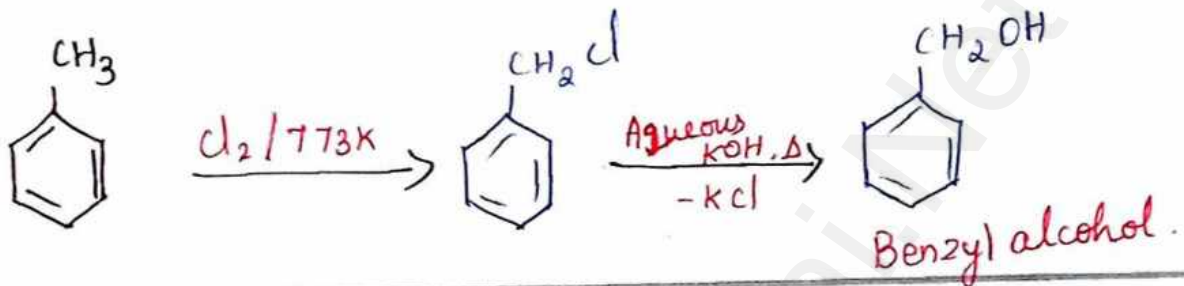
(9)



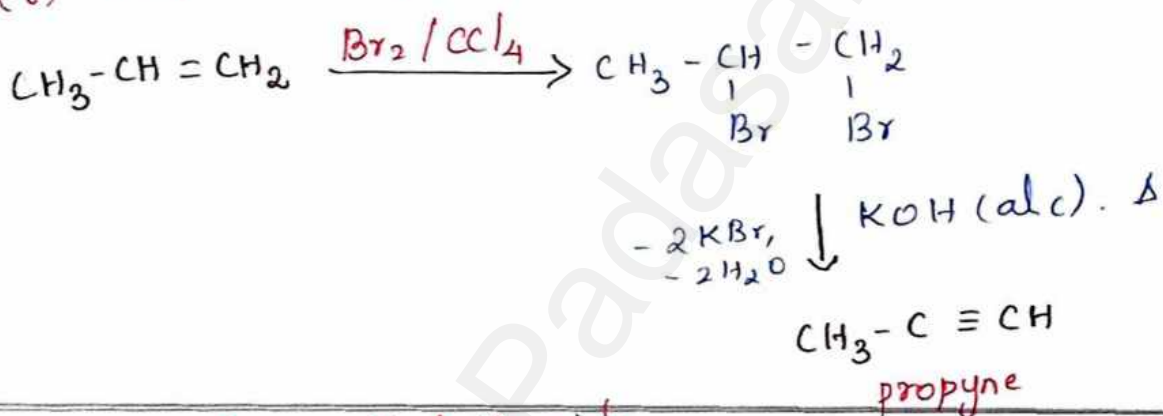
(iii) Propene to 1-nitropropane



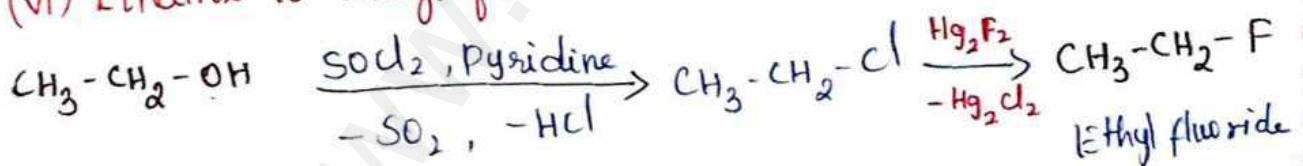
(iv) Toluene to benzyl alcohol



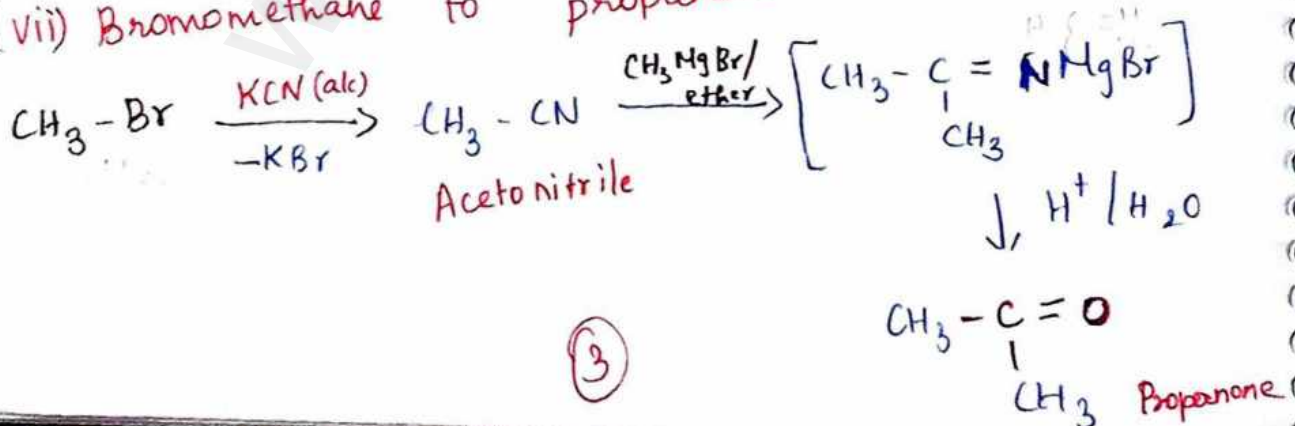
(v) Propene to propyne



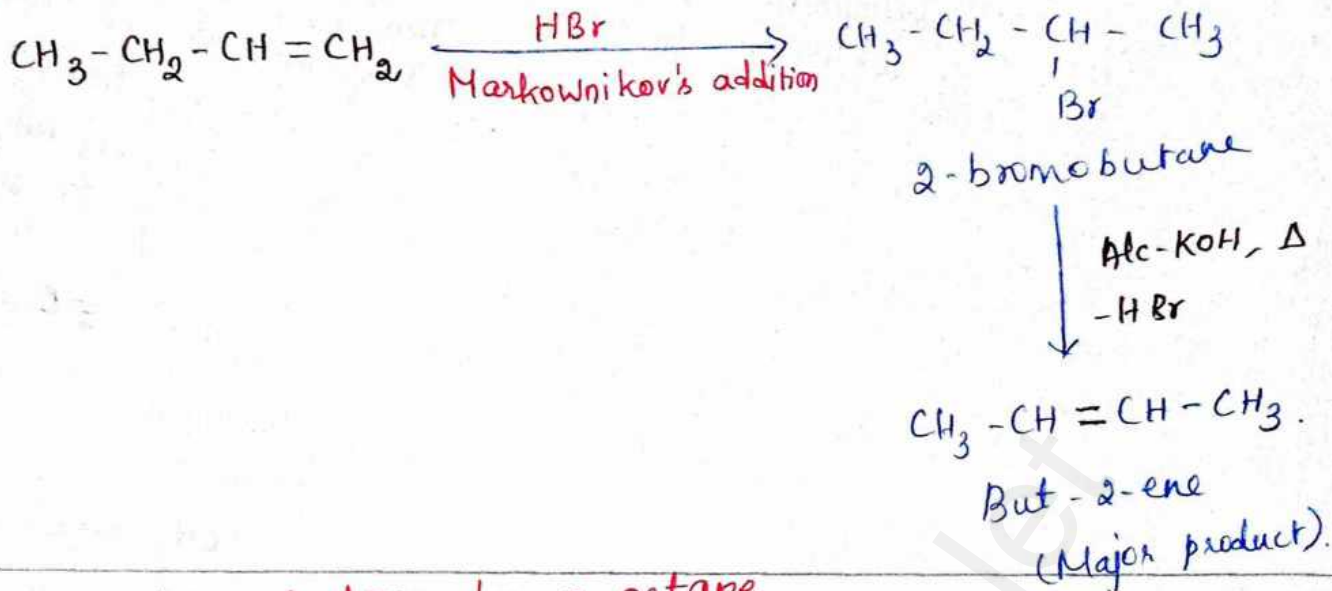
(vi) Ethanol to ethyl fluoride



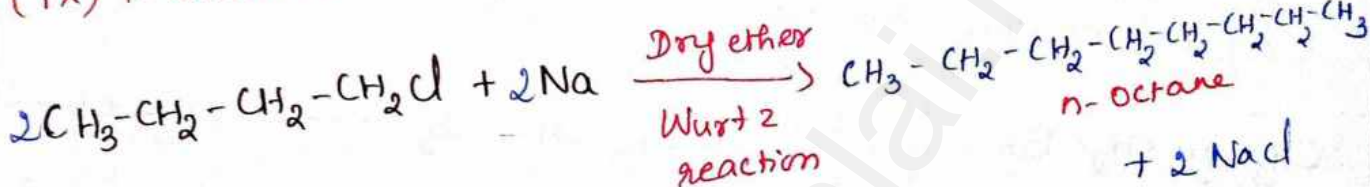
(vii) Bromomethane to propanone



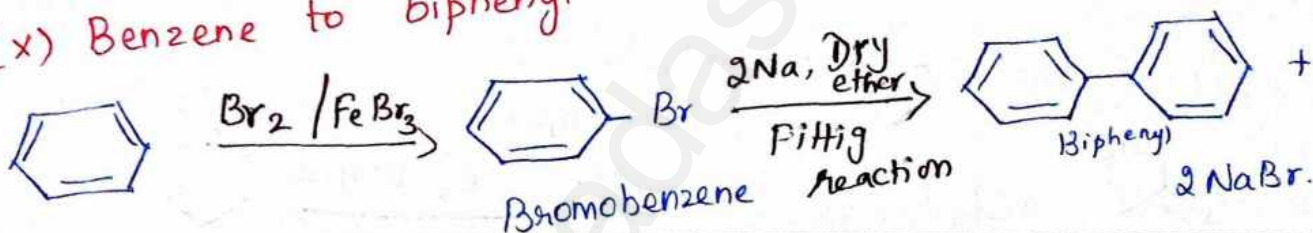
(viii) But-1-ene to but-2-ene



(ix) 1-chlorobutane to n-octane

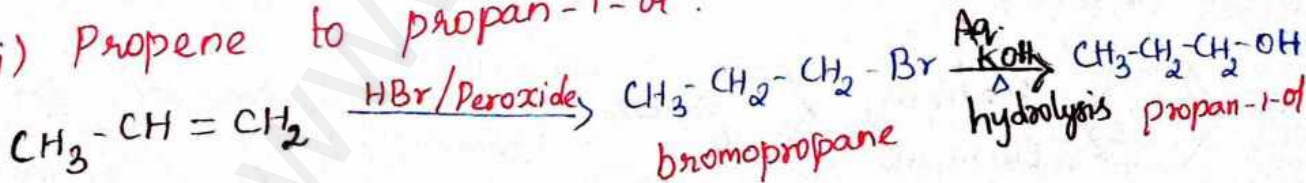


(x) Benzene to biphenyl

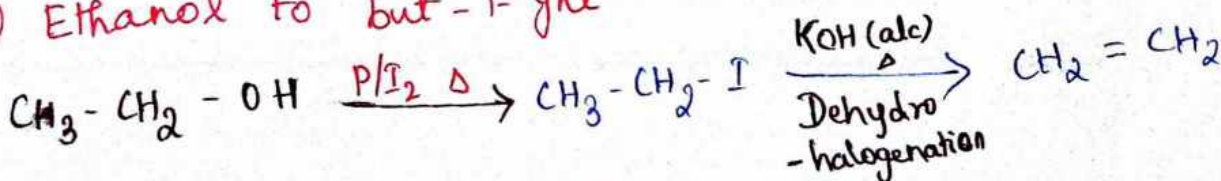


10.19. How the following conversions can be carried out?

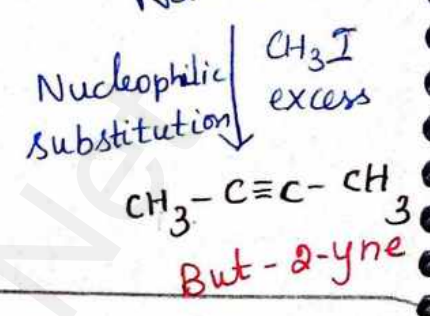
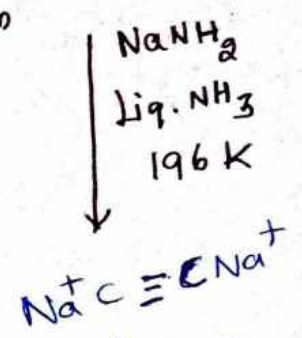
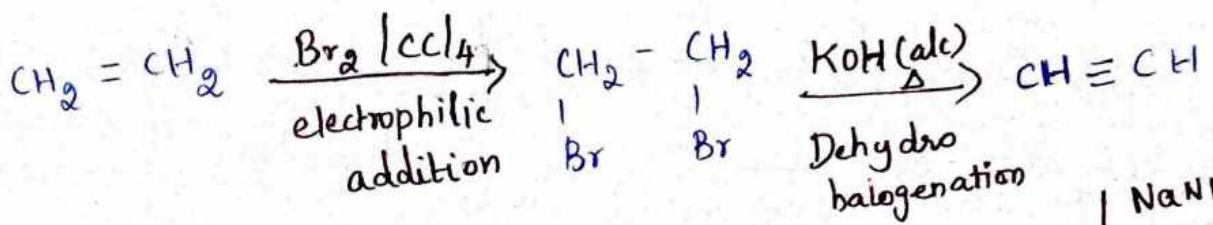
(i) Propene to propan-1-ol



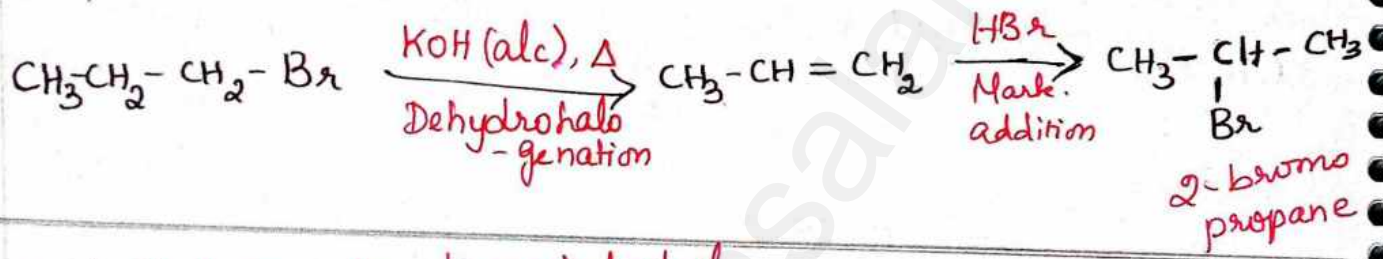
(ii) Ethanol to but-1-ene



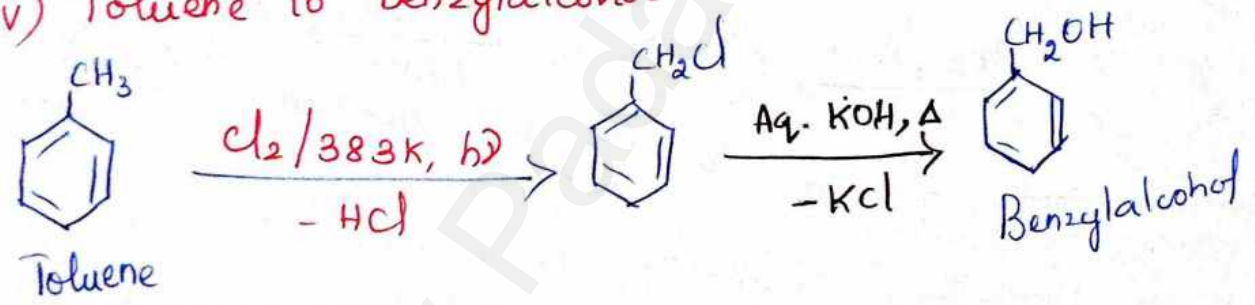
(4)



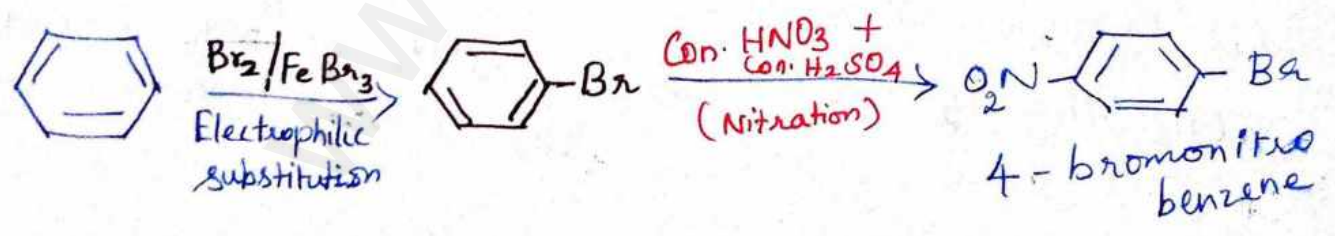
(iii) 1-bromopropane to 2-bromopropane



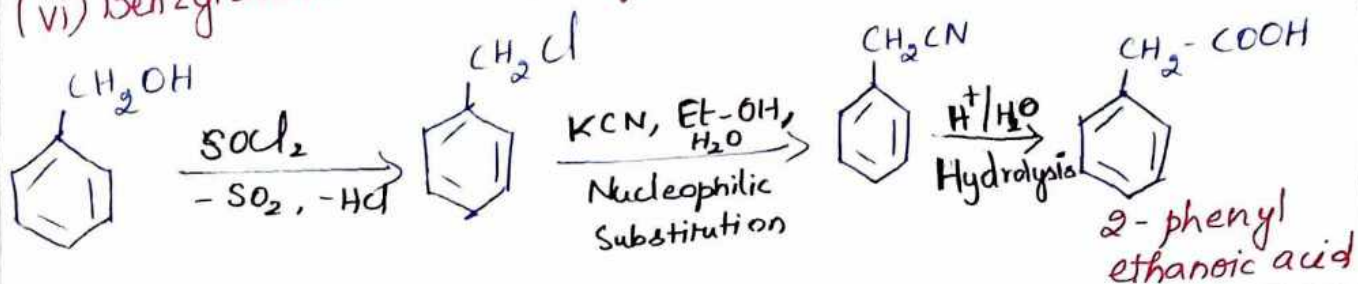
(iv) Toluene to benzylalcohol



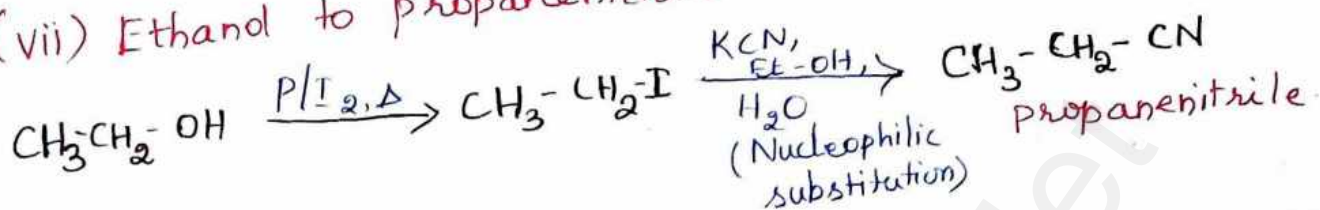
(v) Benzene to 4-bromonitrobenzene



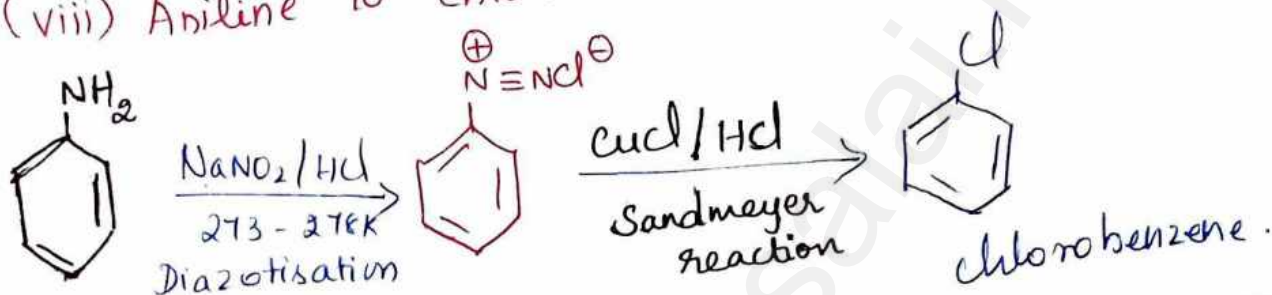
(vi) Benzyl alcohol to 2-phenylethanoic acid



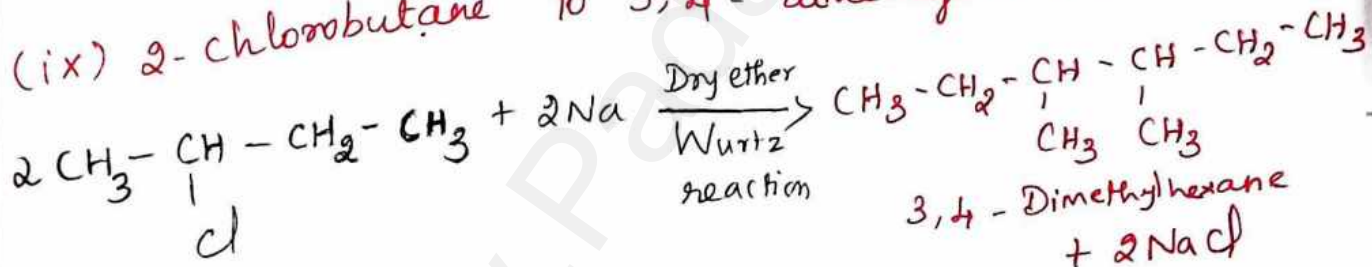
(vii) Ethanol to propanenitrile



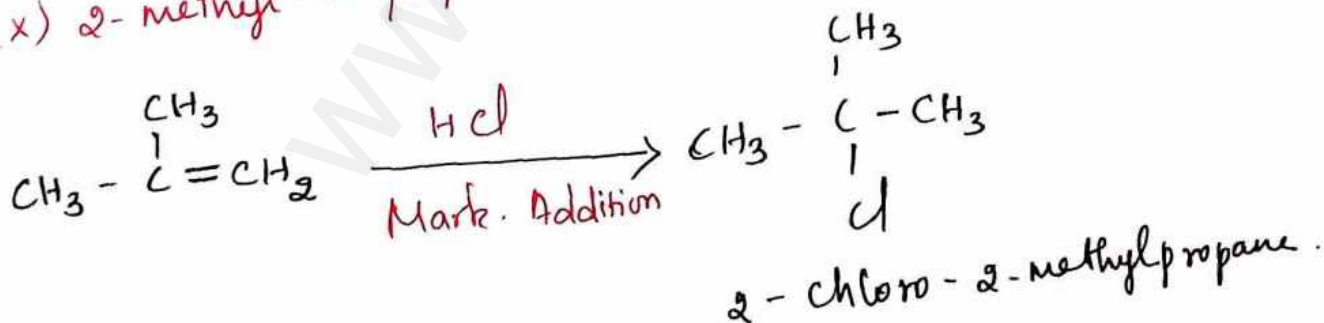
(viii) Aniline to chlorobenzene



(ix) 2-chlorobutane to 3,4-dimethylhexane

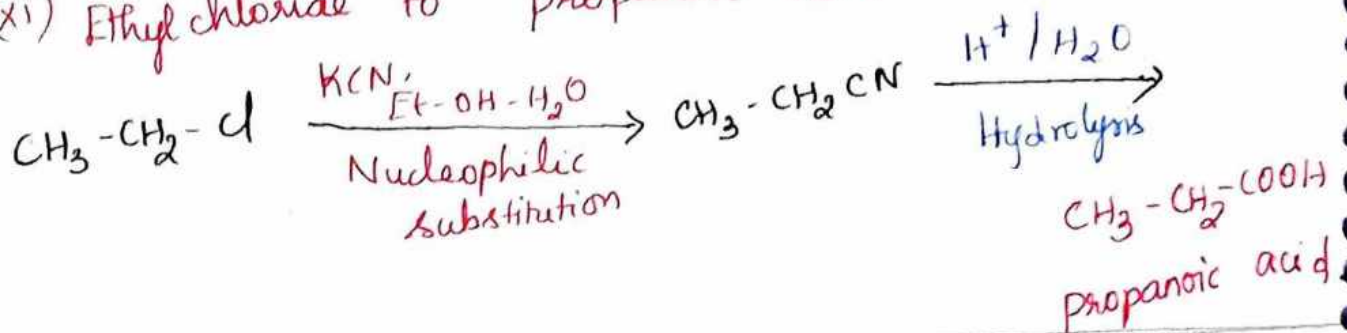


(x) 2-methyl-1-propene to 2-chloro-2-methylpropane

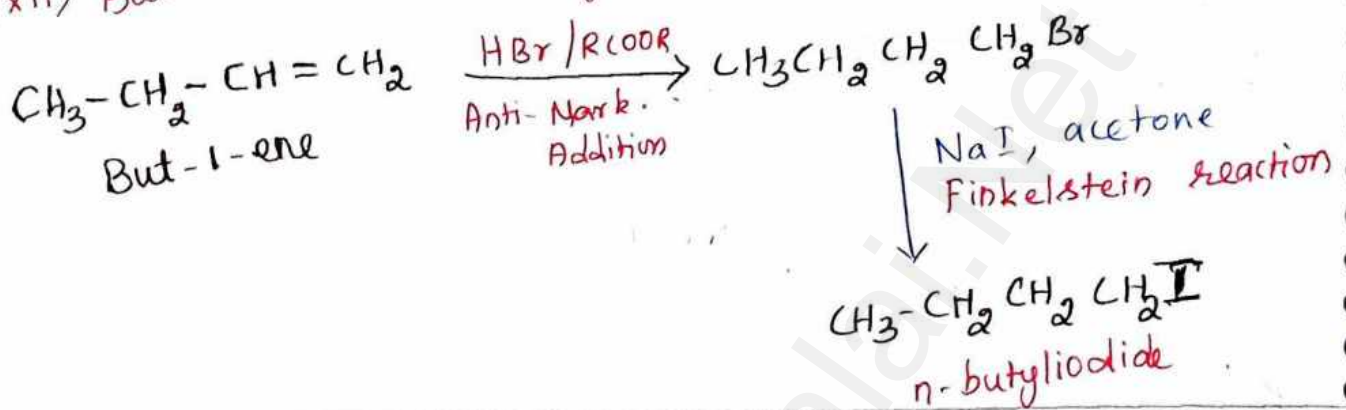


(6)

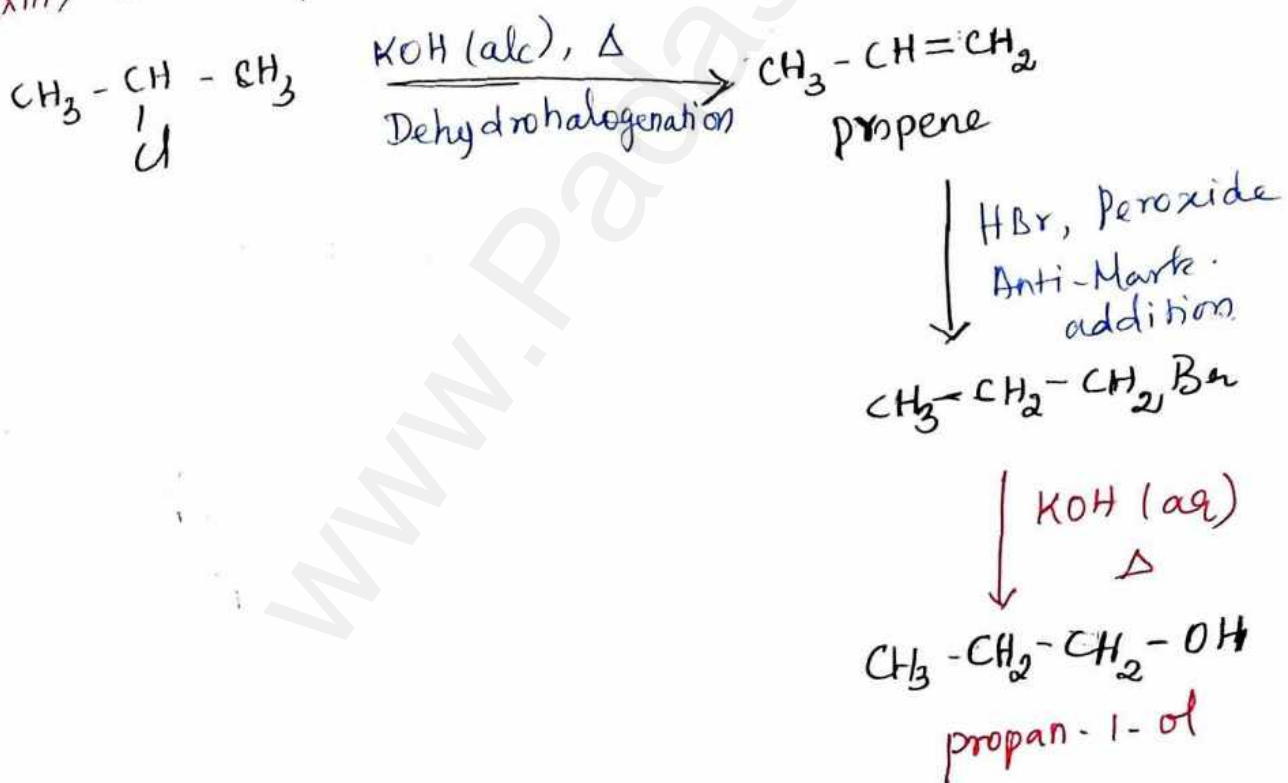
(xi) Ethyl chloride to propanoic acid



(xii) But-1-ene to n-butyl iodide

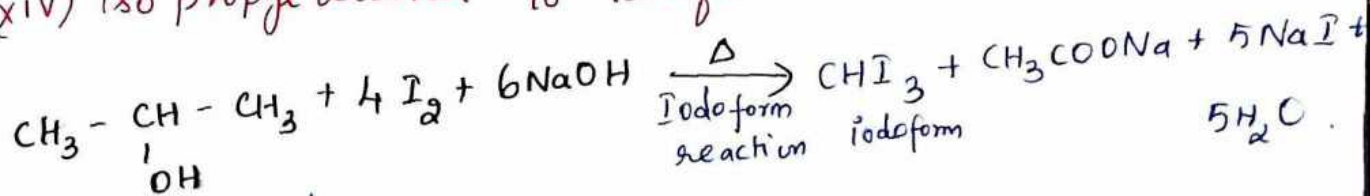


(xiii) 2-chloropropane to propan-1-ol



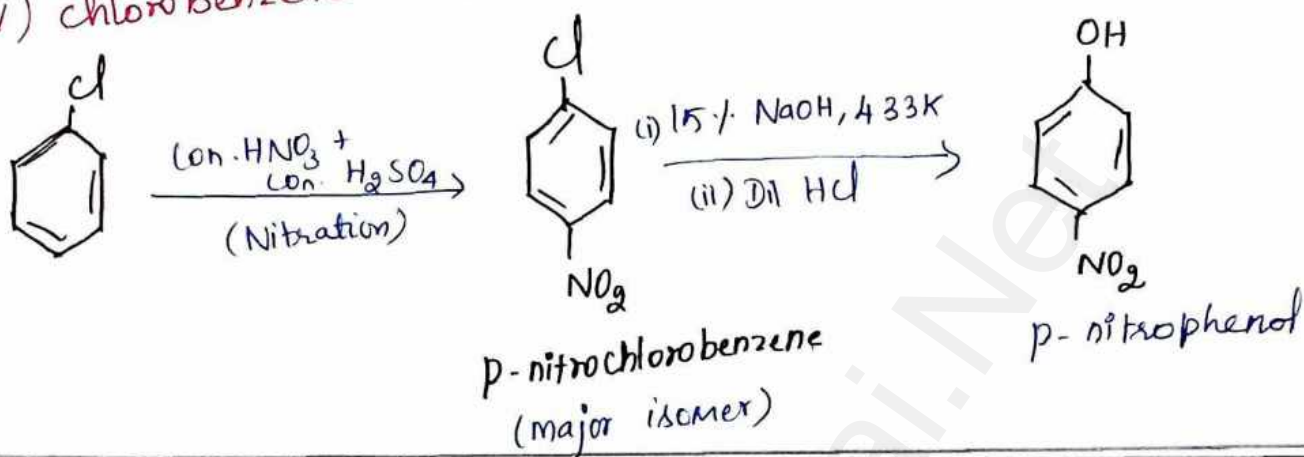
(7)

(xiv) iso propyl alcohol to iodoform

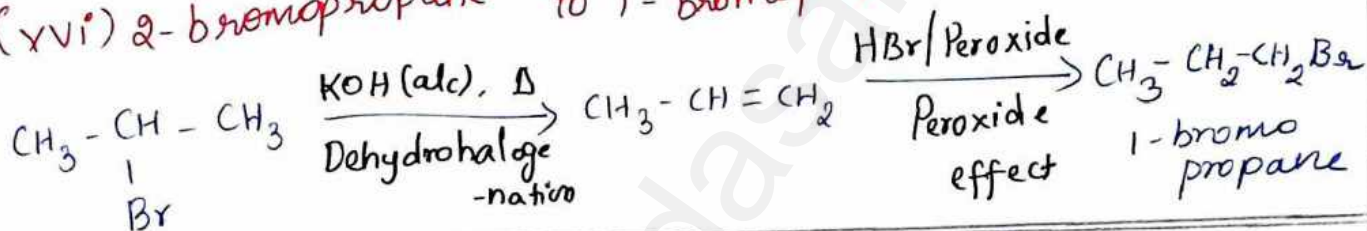


Isopropyl alcohol

(xv) chlorobenzene to p-nitrophenol



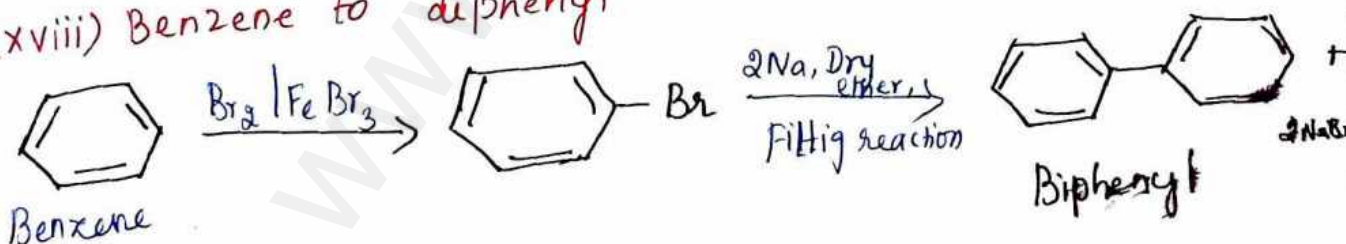
(xvi) 2-bromopropane to 1-bromopropane



(xvii) chloroethane to butane

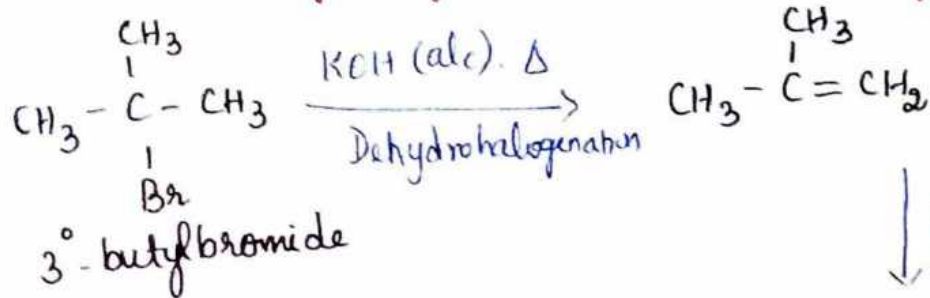


(xviii) Benzene to diphenyl

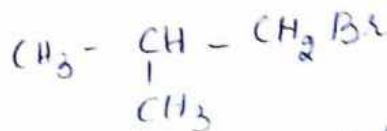


8

(xix) tertiary butyl bromide to isobutyl bromide

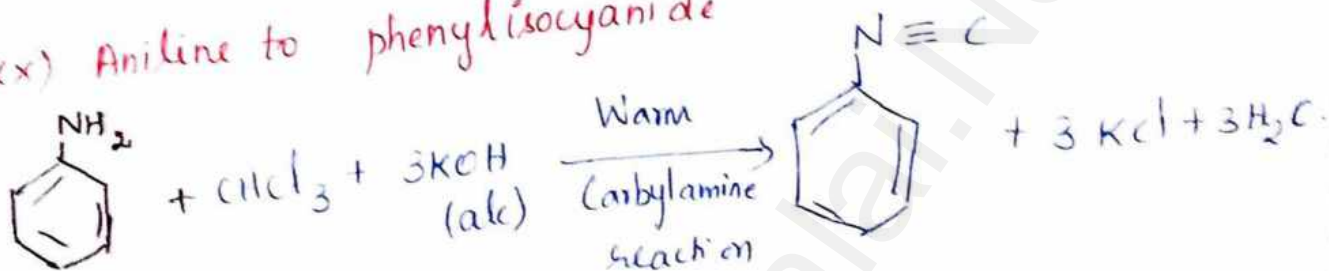


↓ HBr, Peroxide
Anti Mark. Addition



Isobutyl bromide

(xx) Aniline to phenyl isocyanide



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(9)



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