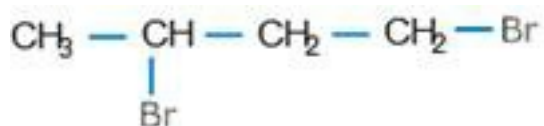


CBSE Class 12 physics
Important Questions
Chapter 10
Haloalkanes and Haloarenes

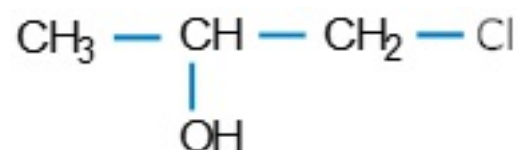
1 Marks Questions

1. Give IUPAC names of following compounds

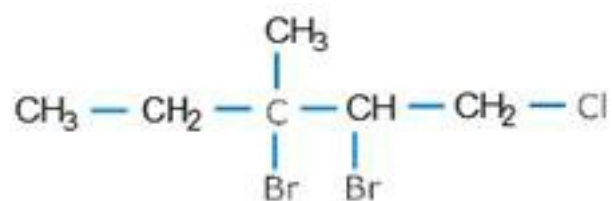
(i).



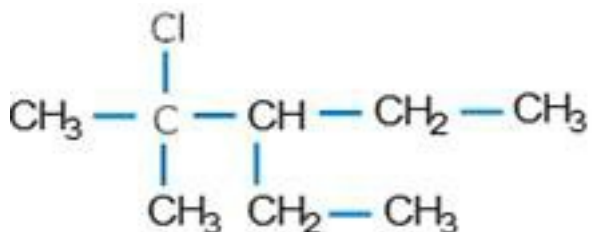
(ii).



(iii).

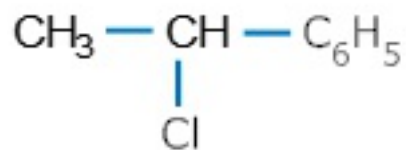


(iv).



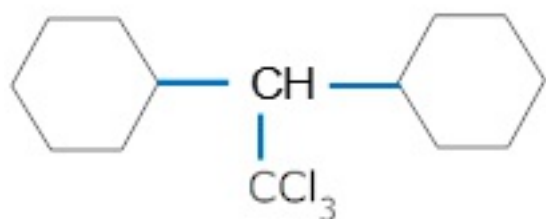
(v). $\text{C}_6\text{H}_5\text{CH}_2\text{CH}_2\text{Cl}$

(vi).

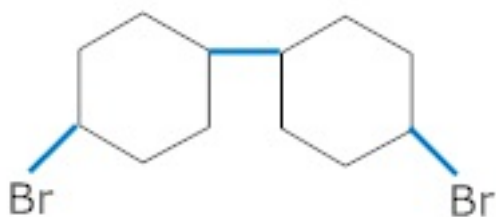


(vii). $\text{C}_6\text{H}_5\text{Cl}_6$

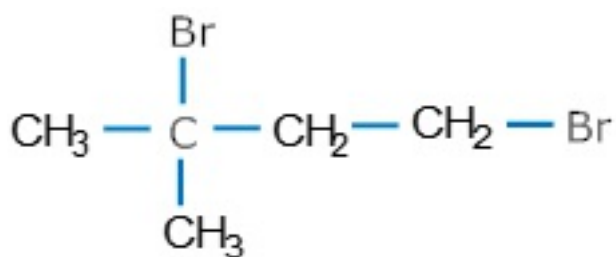
(viii).



(ix).



(x).



Ans.(i). 1, 3- Dibromobutane

(ii). 1- Chloropropan-2-ol

(iii). 2, 3 – Dibromo-1-chloro-3-methylpentane

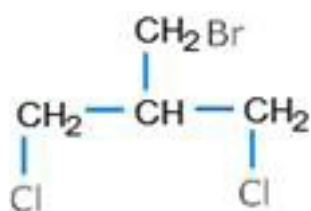
(iv). 2-Chloro-3-ethyl-2-methyl pentane

- (v). 1-Chloro-2-phenylethane
- (vi). 1-Chloro-1-phenyl ethane
- (vii). 1, 2, 3, 4, 5, 6- hexachlorocyclohexane
- (viii). 2, 2- Dihexyl 1, 1, 1-Trichloro ethane
- (ix). 4, 4-dibromobiphenyl
- (x). 1, 3-Dibromo -3- methyl butane

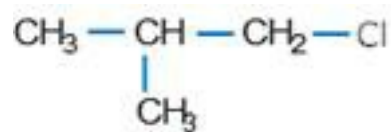
(2). Give the structures of following.:

- (i). 1,3-Dichloro -2-(bromomethyl) propane**
- (ii). Isobutylchloride**
- (iii). Ortho bromotoluene**
- (iv). 1 – Bromo – 4 – chlorobutane**
- (v). 3 – Bromo – 5 – chloro – 3,5 – dimethyloctane**
- (vi). 2,3 – Dibromo – 1 – chloro -3- methylpentane**
- (vii). 2 – Chloro – 3 – ethyl -1, 4- pentadiene**
- (viii). 2,3 – Dibromo – 1 – chloro -3- methylpentane**
- (ix). 2 – Chloro – 1 – phenylpropane**
- (x). Tert – butylchloride**

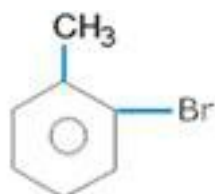
Ans.(i)



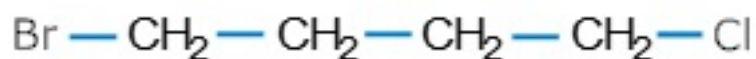
(ii).



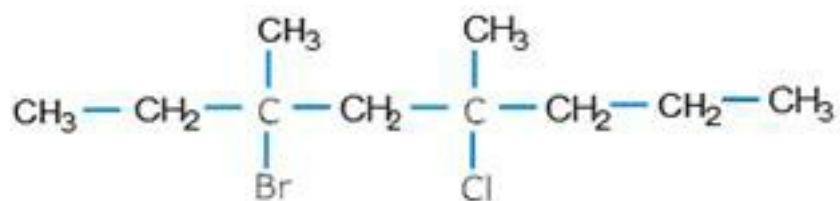
(iii).



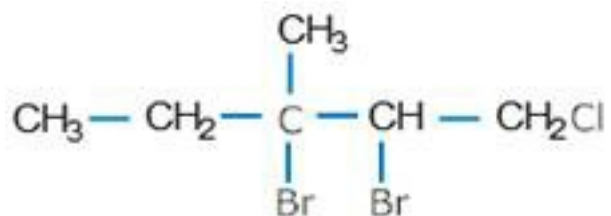
(iv).



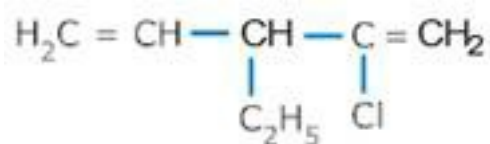
(v).



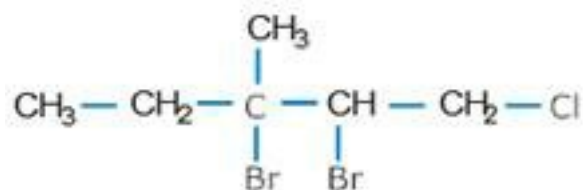
(vi).



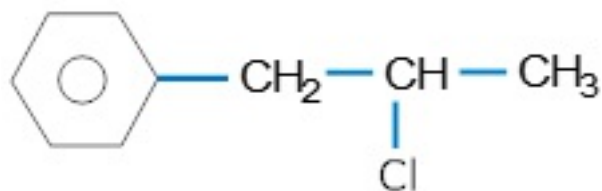
(vii).



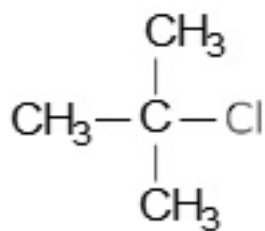
(viii).



(ix).

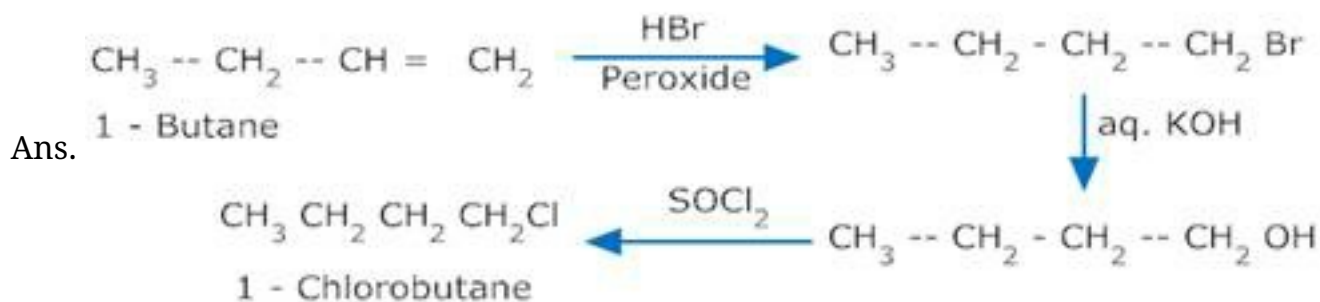


(x).

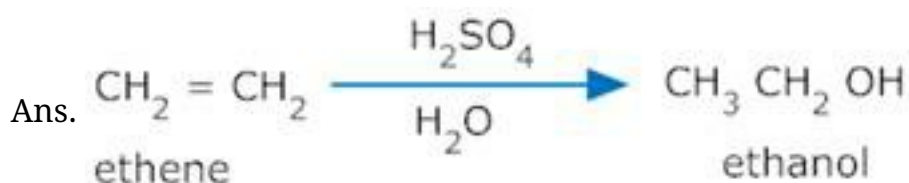


3. Convert

(i). 1 - Butene to 1 — chlorobutane.



(ii). Ethene to ethanol.



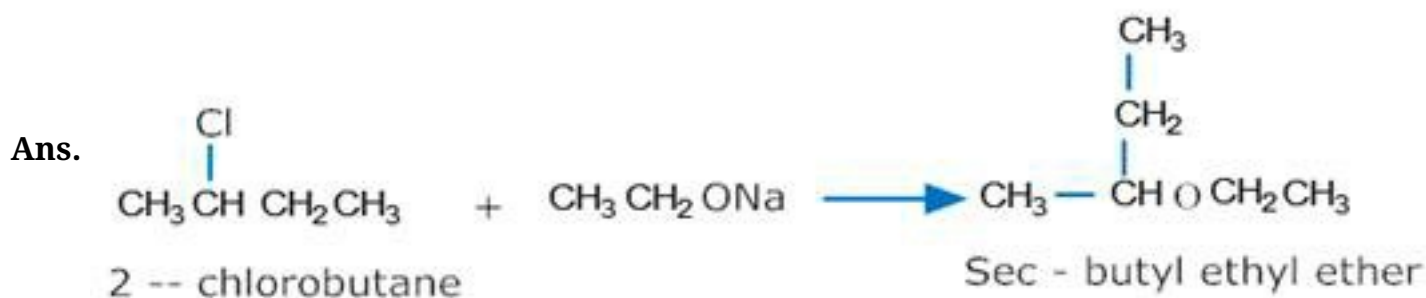
(iii). Chlorobenzene to phenol.



(iv). Methyl bromide to acetic acid.

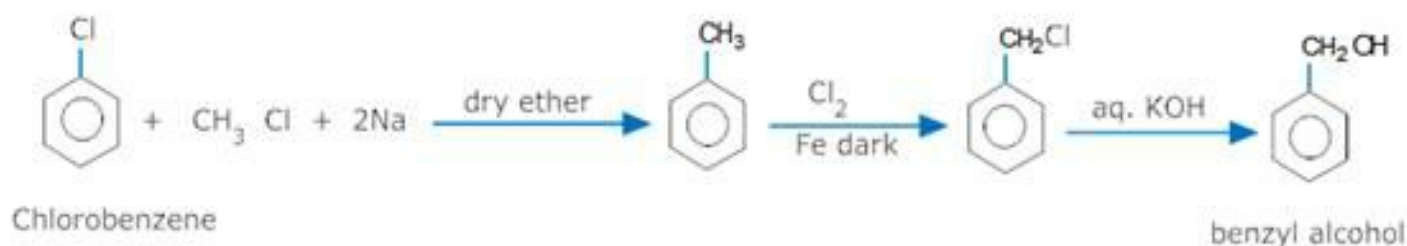


(v). 2-chlorobutane to sec-butyl ethyl ether.



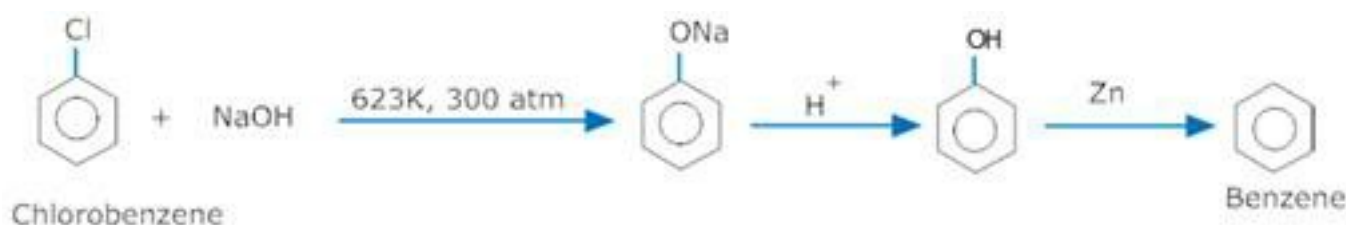
(vi). Chlorobenzene to benzyl chloride.

Ans.



(vii). Chlorobenzene to Benzene.

Ans.



(viii). Methane to Ethane.

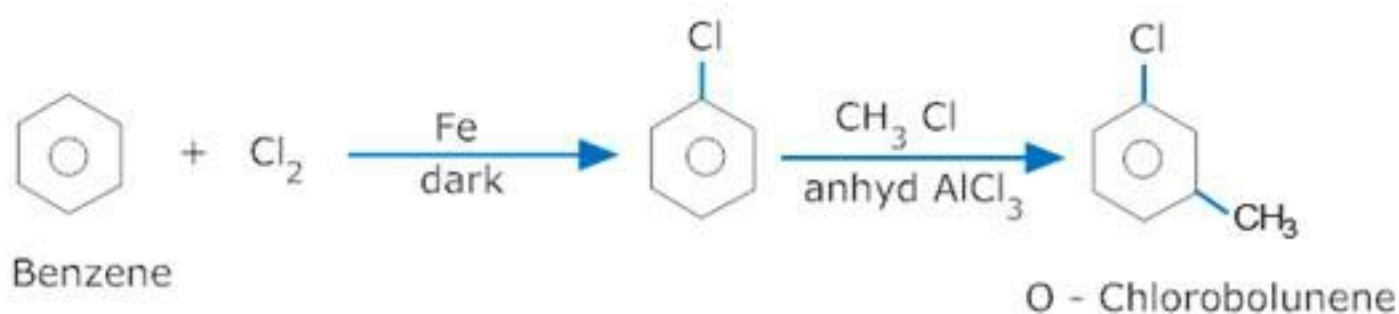


Ans. Methane

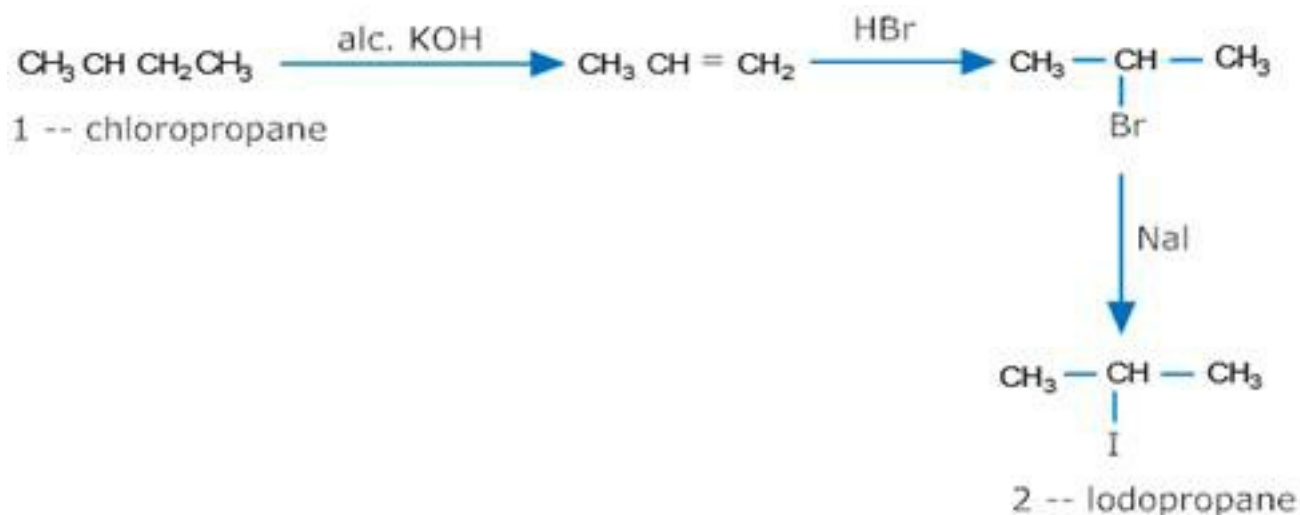


(ix). Benzene to o- chlorotoluene.

Ans.



(x). 1- chloropropane to 2- iodopropane.



Ans.

4. What is lucas reagent?

Ans. A mixture of HCl and anhydrous ZnCl_2 is known as Lucas reagent.

5. Which of the following will show optical isomerism

1 – bromobutane or 2 – bromobutane?

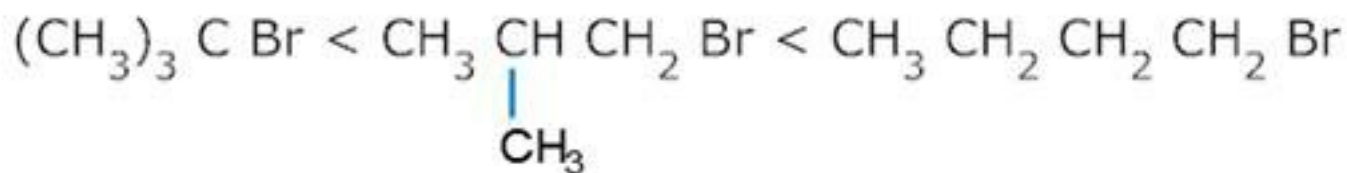


Ans.

2- bromobutane will be optically active as it has one chiral carbon (C_2).

6. Arrange $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{Br}$, $(\text{CH}_3)_3\text{CBr}$, $\text{CH}_3\text{CH}(\text{CH}_3)\text{CH}_2\text{Br}$ in order of increasing boiling points.

Ans. The order of increasing boiling points is



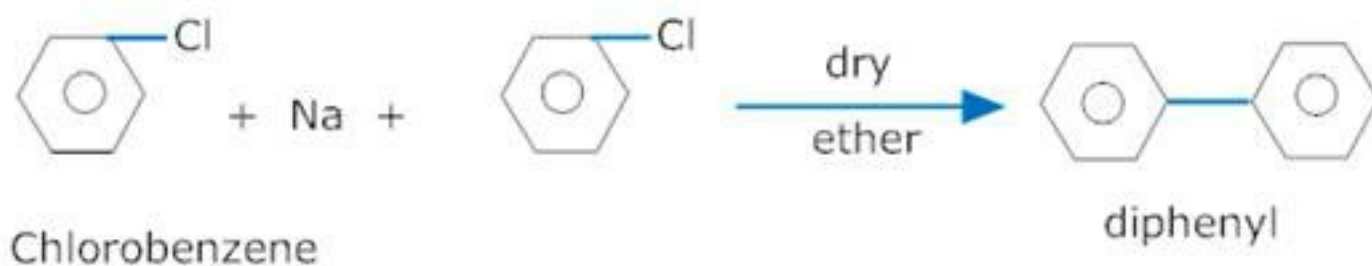
Boiling point decreases with increase in branching as it reduces the surface area.

7. Give an example of

(a) Fittig reaction

(b) Finkelstein reaction.

Ans. (a) Fittig reaction



(b) Finkelstein reaction

