

## Questions

① Write the structure of the following compounds.

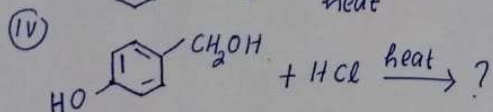
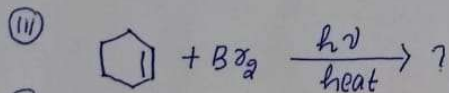
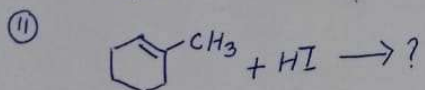
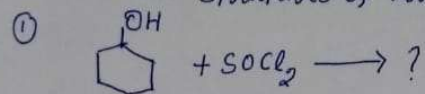
(i) 2-chloro-3-methyl pentane

(ii) 1-chloro-4-ethyl cyclohexane

(iii) 4-tert-butyl-3-iodo heptane

(iv) 1,4-Dibromobut-2-ene

② Draw the structures of major monohalo product



③ Arrange each set of compounds in order of increasing boiling points

(i) Bromomethane, Bromoform, Chloromethane, Dibromomethane

(ii) 1-chloropropane, Isopropyl chloride, 1-chlorobutane

④ Which alkyl halide from the following pairs would you expect to react more rapidly by an  $\text{S}_\text{N}2$  mechanism? Explain your answer.

