

PRACTICE TEST

Level 2

CLASS: XII

Unit 10: HALOALKANES AND HALOARENES

Full marks: 20

Time: 40 Min

Q.No	Questions	M
1	Write structures of the following compounds: (i) 4-tert. Butyl-3-iodoheptane (ii) 1,4-Dibromobut-2-ene	1
2	Why is sulphuric acid not used during the reaction of alcohols with KI?	1
3	Name the following halides according to IUPAC system and classify them as alkyl, allyl, benzyl (primary, secondary, tertiary), vinyl or aryl halides: (i) $\text{CH}_3\text{CH}_2\text{C}(\text{CH}_3)_2\text{CH}_2\text{I}$ (ii) $(\text{CH}_3)_3\text{CCH}_2\text{CH}(\text{Br})\text{C}_6\text{H}_5$	1
4	Complete the reaction: $\text{CH}_3\text{CH}_2\text{Br} + \text{KCN} \rightarrow$	1
5	Write structures of different dihalogen derivatives of propane.	2
6	A hydrocarbon C_5H_{10} does not react with chlorine in dark but gives a single monochloro compound $\text{C}_5\text{H}_9\text{Cl}$ in bright sunlight. Identify the hydrocarbon. Write its structure and IUPAC name.	2
7	Which compound in each of the following pairs will react faster in $\text{S}_\text{N}2$ reaction with OH^- ? (i) CH_3Br or CH_3I (ii) $(\text{CH}_3)_3\text{CCl}$ or CH_3Cl	2
8	How will you bring about the following conversions? (i) Bromomethane to propanone (ii) But-1-ene to but-2-ene	2
9	Illustrate the following each with one example: i. Finkelstein reaction ii. Swartz Reaction	2
10	Explain why (i) The dipole moment of chlorobenzene is lower than that of cyclohexyl chloride? (ii) Alkyl halides, though polar, are immiscible with water? (iii) Grignard reagents should be prepared under anhydrous conditions?	3
11	Write the equations for the preparation of 1-iodobutane from (i) 1-butanol (ii) 1-chlorobutane (iii) but-1-ene.	3