#### **PRACTICE TEST**

## Level 1

## **CLASS: XII**

# **Unit 10: HALOALKANES AND HALOARENES**

Full marks: 20

### Time: 40 Min

Eiwari

Q.No	Questions	M
1	Write structures of the following compounds:	
	(i) 2-Chloro-3-methylpentane	
0	(ii) 1-Chloro-4-ethylcyclohexane	1
2	Name the following halides according to IUPAC system and classify them as	
	alkyl, allyl, benzyl (primary, secondary, tertiary), vinyl or aryl halides:	1
2	(i) $(CH_3)_2CHCH(Cl)CH_3$ (ii) $CH_3CH_2CH(CH_3)CH(C_2H_5)Cl$	1 1
3 4	Complete the reaction: $CH_3CH_2CH_2OH + SOCl_2$ Arrange the compounds of each set in order of reactivity towards SN2	1
4	displacement:	
	1-Bromobutane, 1-Bromo-2,2-dimethylpropane, 1-Bromo-2-methylbutane,	
	1-Bromo-3-methylbutane.	1
5	Out of $C_6H_5CH_2Cl$ and $C_6H_5CHClC_6H_5$ , which is more easily hydrolyzed by	1
U	aqueous KOH? Explain why?	2
6	Write a chemical test to distinguish between the following pairs of	-
	compounds-	
	i. Ethanol and Methanol	
	ii. Penta-2-ol and Penta-3-ol	2
7	What happens when	
	(i) n-butyl chloride is treated with alcoholic KOH,	
	(ii) methyl chloride is treated with KCN?	2
8	Arrange each set of compounds in order of increasing boiling points.	
	(i) Bromomethane, Bromoform, Chloromethane, Dibromomethane.	2
_	(ii) 1-Chloropropane, Isopropyl chloride, 1-Chlorobutane.	
9	How will you bring about the following conversions?	-
10	(i) Ethanol to but-1-yne (ii) Ethane to bromoethene	2
10	Among the isomeric alkanes of molecular formula $C_5H_{12}$ , identify the one that	
	on photochemical chlorination yields	
	(i) A single monochloride.	
	(ii) Three isomeric monochlorides.	3
11	(iii) Four isomeric monochlorides. Illustrate the following reactions each with one example:	3
11	i. Wurtz-Fittig reaction	
	ii. Fittig reaction	
	iii. Sandmeyer reaction	3
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