## PRACTICE TEST

## Level 1

## **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) 2-Chloro-3-methylpentane	
	(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:	
	(i) (CH <sub>3</sub> ) <sub>2</sub> CHCH(Cl)CH <sub>3</sub> (ii) CH <sub>3</sub> CH <sub>2</sub> CH(CH <sub>3</sub> )CH(C <sub>2</sub> H <sub>5</sub> )Cl	1
3	Complete the reaction: CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> OH + SOCl <sub>2</sub>	1
4	Arrange the compounds of each set in order of reactivity towards SN2	
	displacement:	
	1-Bromobutane, 1-Bromo-2,2-dimethylpropane, 1-Bromg-2 pothylbutane,	
	1-Bromo-3-methylbutane.	1
5	1-Bromo-3-methylbutane. Out of C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> Cl and C <sub>6</sub> H <sub>5</sub> CHClC <sub>6</sub> H <sub>5</sub> , which is more easily hydrolyzed by aqueous KOH? Explain why?	
	aqueous KOH? Explain why?	2
6	Write a chemical test to digniguish between the following pairs of	
	compounds-	
	i Want and Methar O	
	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?	
	(i) Ethanol to but-1-yne (ii) Ethane to bromoethene	2
10	Among the isomeric alkanes of molecular formula C <sub>5</sub> H <sub>12</sub> , identify the one that	
	on photochemical chlorination yields	
	(i) A single monochloride.	
	(ii) Three isomeric monochlorides.	
	(iii) Four isomeric monochlorides.	3
11	Illustrate the following reactions each with one example:	
	i. Wurtz-Fittig reaction	
	ii. Fittig reaction	
	iii. Sandmeyer reaction	3