## MAHESH PUBLIC SCHOOL JODHPUR SESSION 2020–21

## WORK SHEET-2 (ORGANIC CHEMISTRY)

Halogen Containing Compounds

9.	Which of the following organic compounds will give a mixture of 1-chlorobutane and 2-chlorobutane on	18.	$C_6H_6+Cl_2 \xrightarrow{UV \text{ Light}} $ Product. In above reaction product is	'n
	chlorination		(a) <i>ccl</i> <sub>3</sub> <i>cho</i> (b) <i>c</i> <sub>6</sub> <i>H</i> <sub>6</sub> <i>cl</i> <sub>6</sub>	
	(a) $CH_3 - CH - CH = CH_2$		(c) $C_6 H_{12} G_6$ (d) $C_6 H_9 G_2$	
	CH 3	19.	Benzene reacts with chlorine to form benzen	10
	Н	15.	hexachloride in presence of	ic
	(b) $HC \equiv C - \stackrel{\downarrow}{C} = CH_2$		(a) Nickel (b) AICI 3	
			(c) Bright sunlight (d) Zinc	
	(c) $CH_2 = CH - CH = CH_2$	20.	The final product obtained by distilling ethyl alcohol wit	th
	(d) $CH_2 = CH - CH_2 - CH_3$		the excess of chlorine and $c_{a(OH)_2}$ is	
10.	The chlorobenzene is generally obtained from a corresponding diazonium salt by reacting it with		(a) cH 3 cHo (b) ccl 3 cHo (c) cHcl 3 (d) (cH 3) 2 0	
	(a) $Cu_2CI_2$ (b) $Cuso_4$	21.	When ethyl alcohol and $KI$ reacted in presence of	of
	(c) $Cu = (M_3)_4^{2+}$	21.	Na 2 CO 3, yellow crystals of are formed	,,
11.	Decreasing order of reactivity of $HX$ in the reaction		(a) CHI 3 (b) CH 3 I	
	$ROH + HX \rightarrow RX + H_2 O$		(c) $CH_2I_2$ (d) $C_2H_5I$	
		22.	In preparation of CHCI 3 from ethanol and bleaching	ıg
	(a) HI > HBr > HCl > HF (b) HBr > HCl > HI > HF		powder, the latter provides	
	(c) HCI > HBr > HI > HF (d) HF > HBr > HCI > HI		(a) $Ca(OH)_2$ (b) $CI_2$	
12.	The product of the following reaction:		(c) Both (a) and (b) (d) None of these	
	$CH_{2} = CH - CCI_{3} + HBr$	23.	Which one of the following processes does not occur	
	(a) $CH_3 - CH(Br) - CCI_3$ (b) $CH_2(Br) - CH_2 - CCI_3$		during formation of $CHCI_3$ from $C_2H_5OH$ and bleaching powder	lu
	(c) BrCH <sub>2</sub> - CHCl - CHCl <sub>2</sub> (d) CH <sub>3</sub> - CH <sub>2</sub> - CCl <sub>3</sub>		bleaching powder	
13. 14.	Chlorobenzene is prepared commercially by		(a) Hydrolysis (b) Oxidation	
	(a) Raschig process (b) Wurtz Fitting reaction	0.4	(c) Reduction (d) Chlorination	
	(c) Friedel-Craft's reaction (d) Grignard reaction	24.	Which of the following is obtained when chloral is boile with NaOH	D
	In methyl alcohol solution, bromine reacts with ethylene		(a) CH 3 CI (b) CHCI 3	
	to yield $BrCH_{2}CH_{2}OCH_{3}$ in addition to 1, 2-		(c) cc/ 4 (d) None of these	
	dibromoethane because	25.	Chloroform can be obtained from	
	(a) The ion formed initially may react with $Br^-$ or		(a) Methanol (b) Methanal	
	CH 3 OH		(c) Propanol-1 (d) Propanol-2	
	<ul><li>(b) The methyl alcohol solvates the bromine</li><li>(c) The reaction follows Markownikoff's rule</li></ul>	26.	Chlorine reacts with ethanol to give [MP PMT 1989; CPMT 1997; KCET 1998; JIPMER 199	۵l
	(d) This is a free-radical mechanism		(a) Ethyl chloride (b) Chloroform	2]
15.	$C_3H_8 + CI_2 \xrightarrow{\text{Light}} C_3H_7CI + HCI$ is an example of		(c) Acetaldehyde (d) Chloral	
10.	which of the following types of reactions	27.	On heating diethyl ether with conc. HI, 2 moles of which	:h
	Willow of the following types of reactions		of the following is formed	
	(a) Substitution (b) Elimination			
	(c) Addition (d) Rearrangement		(a) Ethanol (b) Iodoform	
16.	Which of the following would be produced when acetylene reacts with <i>HCl</i>	28.	(c) Ethyl iodide (d) Methyl iodide Lucas reagent is	
	(a) CH 3 CH 2 CI (b) CH 3 CHCI 2	20.	(a) Concentrated	
	(c) $CHCI = CHCI$ (d) $CHC_2 = CHCI$		(b) Dilute	
17.			(c) Concentrated HNO $_3$ + anhydrous ZnCl $_2$	
17.	$R - OH + HX \rightarrow R - X + H_2 O$ In the above reaction, the reactivity of different alcohols is		(d) Concentrated HCI + anhydrous MgCI 2	
	in the above reaction, the reactivity of different dicords is	29.	Which compound does not form iodoform with alkali an	ıd
	(a) Tertiary > Secondary > Primary		iodine	
	(b) Tertiary < Secondary < Primary		(a) Acetone (b) Ethanol	

(c) Tertiary < Secondary > Primary

(c) Diethyl ketone

(d) Isopropyl alcohol