## PRACTICE TEST

## Level 3

## **CLASS: XII**

## Unit 11: ALCOHOLS, PHENOLS AND ETHERS

Full marks: 20 Time: 40 Min

Q.No	Questions		M
1	Name the product obtained on monochlorination of toluene in sunlight		1
	followed by hydrolysis with aq. NaOH.		
2	How many alcohols with molecular formula C4H10O are chiral in nature?		1
3	Write IUPAC name of CH <sub>3</sub> -CHCl-CH <sub>2</sub> -CH <sub>2</sub> -CH(OH)-CH <sub>3</sub>		1
4	What happens when benzene diazonium chloride is heated with water?		1
5	Why is the reactivity of all the three classes of alcohols with conc. HCl and		0
6	ZnCl <sub>2</sub> (Lucas reagent) different?		2 2
6 7	Explain why is <i>ortho</i> nitrophenol more acidic than <i>ortho</i> methoxyphenol? Explain how does the –OH group attached to a carbon of benzene ring		2
1	activate it towards electrophilic substitution?		
8			2
O	write the incentation of acid deligaration of entation to yield efficie.		
9	Write the names of reagents and equations for the preparation of the		
	following		
	ethers by Williamson's synthesis:		2
	(i) 1-Propoxypropane (ii) Ethoxybenzene		
	(iii) 2-Methoxy-2-methylpropane (iv) 1-Methoxyethane		
10	Match the items of column I with items of column II.		
	column I	column II	3
	(i) Methanol	(a) Conversion of phenol	
	(1) 77 11 1	to <i>o</i> -hydroxysalicylic acid	
	(ii) Kolbe's reaction	(b) Ethyl alcohol	
	(iii) Williamson's synthesis	(c) Conversion of phenol to	
		salicylaldehyde	
	(iv) Conversion of 2° alcohol to ketone	(d) Wood spirit	
	(v) Reimer-Tiemann reaction	(e) Heated copper at 573K	
	(vi) Fermentation	(f) Reaction of alkyl halide with	
		sodium alkoxide	
11	Explain the following with an example.		
	(i) Kolbe's reaction.		

- (i) Kolbe's reaction.
- (ii) Reimer-Tiemann reaction.
- (iii) Williamson ether synthesis.

3