

PRACTICE TEST

Level 1

CLASS: XII

Unit 11: ALCOHOLS, PHENOLS AND ETHERS

Full marks: 20

Time: 40 Min

Q.No	Questions	M
1	Write IUPAC name of $(\text{CH}_3)_2\text{CH}-\text{OCH}_3$.	1
2	Which of the following is most acidic? (i) Benzyl alcohol (ii) Cyclohexanol (iii) Phenol (iv) <i>m</i> -Chlorophenol	1
3	Arrange the following compounds in increasing order of boiling point: Propan-1-ol, butan-1-ol, butan-2-ol, pentan-1-ol	1
4	What is the structure and IUPAC name of glycerol?	1
5	Out of <i>o</i> -nitrophenol and <i>p</i> -nitrophenol, which is more volatile? Explain.	2
6	Write the mechanism of hydration of ethene to yield ethanol.	2
7	You are given benzene, conc. H_2SO_4 and NaOH . Write the equations for the preparation of phenol using these reagents.	2
8	Name the reagents used in the following reactions: (i) Oxidation of a primary alcohol to carboxylic acid. (ii) Oxidation of a primary alcohol to aldehyde. (iii) Bromination of phenol to 2,4,6-tribromophenol. (iv) Benzyl alcohol to benzoic acid.	2
9	How are the following conversions carried out? (i) Propene \rightarrow Propan-2-ol. (ii) Benzyl chloride \rightarrow Benzyl alcohol.	2
10	Explain the following with an example. (i) Kolbe's reaction. (ii) Reimer-Tiemann reaction. (iii) Williamson ether synthesis.	3
11	Show how will you synthesise: (i) 1-phenylethanol from a suitable alkene. (ii) cyclohexylmethanol using an alkyl halide by an $\text{S}_\text{N}2$ reaction. (iii) pentan-1-ol using a suitable alkyl halide?	3