## **Model Question Paper**

## Hydroxy Derivatives - Part III

	12th Standard						
	Chemistry	Reg.No. :					
	Answer all the questions.				_		
	.Use blue pen only.						
Time	e : 01:30:00 Hrs			T	Total I		
	Part-A					5 x	1 = 5
	General formula of saturated mono hydric alcohol is						
	(a) $C_nH_{2n}O$ (b) $C_nH_{2n+2}O$ (c) $C_nH_{2n-2}OH$ (d) $C_nH_{2n}OH$						
	Saturated monohydric alcohols are isomertic with						
	(a) ethers (b) aldehydes (c) ketones (d) esters						
3)	Ethanal and methoxymethane are						
	(a) chain isomers (b) position isomers (c) functional isomers (d) metamers						
4)	Which one of the following is optically active?						
	(a) n-butyl alcohol (b) iso butyl alcohol (c) 2-butanol (d) tertiary butyl alcohol						
5)	1-Butanol is a						
	(a) primary alcohol (b) secondary alcohol (c) tertiary alcohol (d) aromatic alcohol						
	Part-B					5 x 3	= 15
6)	Explain Dow's process.						
7)	ОН						
	Identify the product A and B. $\bigcap_{NaOH} A \xrightarrow{CHCl_1} A \xrightarrow{Ag^*} B$						
	CH						
_,	CH CH						
8)	Identify the product. A and B $\begin{array}{c} CH_3 \\ CH_3 \end{array}$ CHOH $\begin{array}{c} CO \\ \hline prolonged \end{array}$ A $\begin{array}{c} O \\ \hline \end{array}$ B						
9)	What are monohydric alcohols? How are they classified? Give any three methods of preparing ethyl alcohol.						
10)	How will you distinguish the primary , sec <mark>ondary a</mark> nd tertiary alcoho <mark>ls by victo</mark> r Mey <mark>er's met</mark> hod ?						
	Part-C					6 x 5	= 30
11)	How does glycerol react with oxalic acid at (i) 383 K (ii) 533 K						
12)	What are monohydric alcohols? How are th <mark>ey classified? Give examples.</mark>						
13)	Give the four methods of preparation of benzyl alcohol.						
14)	Write a note on acidic nature of phenol.						
15)	How will you convert acetic acid to tertiary butyl alcohol?						
16)	An organic compound has the formula $C_4H_{10}O$ . It liberates hydrogen with metallic sodium. (i) Write three isomers of $C_4H_{10}O$ which react values of	with sodium (ii) Gi	ve th	e act	ion o	any	one
	of the isomers with acetic acid.						
	Part-D					2X1	0=20
17)	a) How will you convert ethyl alcohol to isopropyl alcohol?						
	b) How will you convert						
	(i) Glycol to formic acid						
	(ii) Glycerol to TNG (Triniro glycerine)						
	(iii) Glycerol to Glycerol tricetate						
18)	•••						
	(i) is heated with CCI <sub>4</sub> . NaOH (Riemer - Tiemann reaction)						
	(ii) is treated with benzoyl chloride . NaOH (Schotten - Baumann reaction)						
	(iii) is treated with conc. H <sub>2</sub> SO <sub>4</sub> (Sulphonation)						

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b) How are phenols classified? Give their structures and names.