



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

## WORKSHEET-13(CLASS-12)



### TOPIC- ALCOHOL, PHENOL AND ETHER

#### SUBTOPIC-GENERAL PROPERTIES AND PREPARATION OF ALCOHOL

SUBJECT – CHEMISTRY

F.M. - 15

DURATION – 30 mins

DATE -16.05.20

1.1 Which one of the following is termed as benzyl alcohol?

- a)  $C_6H_5OH$  b)  $C_6H_5CH(OH)_2$  c)  $C_6H_5CH_2OH$  d)  $C_6H_5COOH$

Ans. c

1.2 Which one of the following is also known as the lactic acid?

- a) 3-Hydroxy propanoic acid b) 2-Hydroxy propanoic acid  
c) 2-hydroxy butanoic acid d) 3-hydroxy butanoic acid

Ans. b

1.3 Which one of the following is also known as the tartaric acid?

- a) 2,3-dihydroxy butane 1,4-dioic acid b) 2,3-dihydroxy butanedioic acid  
c) 2,3-dihydroxy butanedioic acid d) 2,2-dihydroxy butanoic acid

Ans. a

1.4 Water gas heated at  $450^\circ C$  and 200 atm pressure in the presence of  $ZnO + Cr_2O_3$  will produce-

- a) Methanal b) Methanol c) Carbonic acid d) Methane

Ans. b

1.5 The residue obtained after the crystallization of sugar from concentrated sugar cane juice is called-

- a) Mother liquor b) Filterate c) Extract d) Molasses

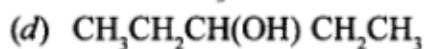
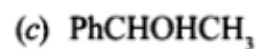
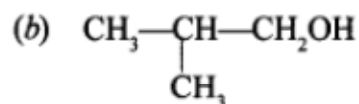
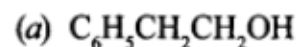
Ans. d

1.6 The rectified spirit contains-

- a) 12% alcohol b) 90% alcohol c) 95% alcohol d) 100% alcohol

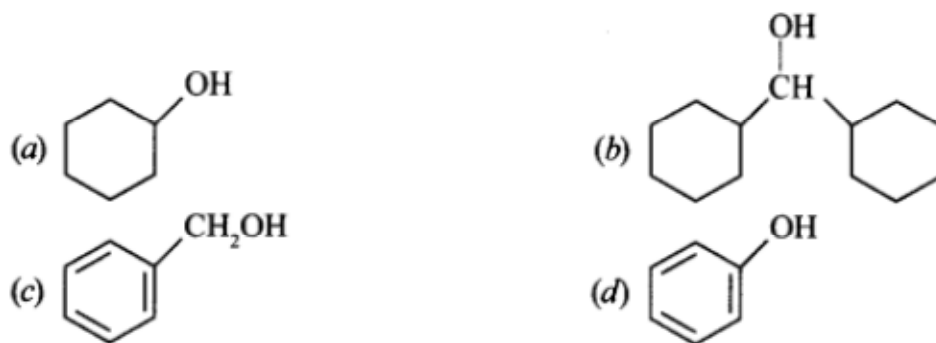
Ans. c

1.7 Which of the following gives positive iodoform test?



Ans. c

1.8 Which one of the following compounds has the most acid nature?



Ans. d

1.9 How many alcohols with molecular formula  $C_4H_{10}O$  are chiral in nature?

a) 1 b) 2 c) 3 d) 4

Ans. a

1.10 Which of the following species can act as the strongest base?



Ans. b

1.11 The correct order of boiling point of primary ( $1^\circ$ ), secondary ( $2^\circ$ ) and tertiary ( $3^\circ$ ) alcohols is-

a)  $1^\circ > 2^\circ > 3^\circ$  b)  $3^\circ > 2^\circ > 1^\circ$  c)  $2^\circ > 1^\circ > 3^\circ$  d)  $2^\circ > 3^\circ > 1^\circ$

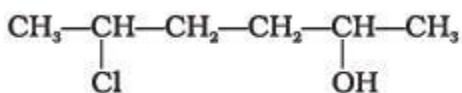
Ans. a

1.12 The process of converting alkyl halides into alcohols involves-

a) Addition reaction b) Substitution reaction c) Dehydrohalogenation reaction  
d) Rearrangement reaction

Ans. b

1.13 Give IUPAC name of the compound given below-



a) 2-Chloro-5-hydroxyhexane b) 2-Hydroxy-5-chlorohexane c) 5-Chlorohexan-2-ol  
d) 2-Chlorohexan-5-ol

Ans. c

1.14 Arrange the following compounds in increasing order of boiling point. Propan-1-ol, butan-1-ol, butan-2-ol, pentan-1-ol a)  $\text{H}_2/\text{Pd}$  (ii)  $\text{LiAlH}_4$  b)  $\text{NaBH}_4$  c) Reaction with  $\text{RMgX}$  followed by hydrolysis d) None of these-

- a) Propan-1-ol, butan-2-ol, butan-1-ol, pentan-1-ol
- b) Propan-1-ol, butan-1-ol, butan-2-ol, pentan-1-ol
- c) Pentan-1-ol, butan-2-ol, butan-1-ol, propan-1-ol
- d) Pentan-1-ol, butan-1-ol, butan-2-ol, propan-1-ol

**Ans. a**

**1.15 Which compound is also known by the name of carbolic acid?**

- a)  $\text{C}_2\text{H}_5\text{OH}$  b)  $\text{H}_2\text{CO}_3$  c)  $\text{C}_6\text{H}_5\text{OH}$  d)  $\text{H}_3\text{PO}_3$

**Ans. c**

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