



- 1.1 Monochlorination of toluene in sunlight followed by hydrolysis with aq. NaOH yields-a) o-Cresol b) m-Cresol c) 2, 4-Dihydroxytoluene d) Benzyl alcohol

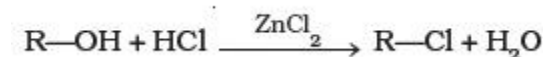
Ans. d

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

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

Ans. a

- 1.3 What is the correct order of reactivity of alcohols in the following reaction?



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

Ans. c

- 1.4 CH_3CH_2OH can be converted into CH_3CHO by-

a) Catalytic hydrogenation b) Treatment with $LiAlH_4$

c) Treatment with pyridinium chlorochromate d) Treatment with $KMnO_4$

Ans. c

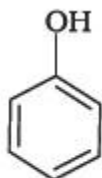
- 1.5 The process of converting alkyl halides into alcohols involves-

a) Addition reaction b) Substitution reaction

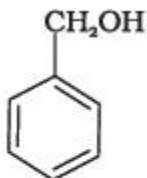
c) Dehydrohalogenation reaction d) Rearrangement reaction

Ans. b

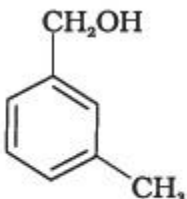
- 1.6 Which of the following compounds is aromatic alcohol?



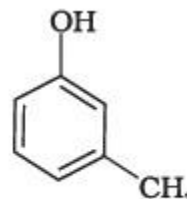
(A)



(B)



(C)



(D)

a) A, B, C, D b) A, D c) B, C d) A

Ans. b

- 1.7 Which of the following cannot be used to convert $RCHO$ into RCH_2OH ?

a) H_2/Pd b) $LiAlH_4$ c) $NaBH_4$ d) Reaction with $RMgX$ followed by hydrolysis

Ans. d

- 1.8 Which of the following reagents can be used to oxidise primary alcohols to aldehydes?

- a) CrO_3 in anhydrous medium b) KMnO_4 in acidic medium.
c) Pyridinium chlorochromate d) Heat in the presence of Cu at 573K.

Ans. c

1.9 Which alcohol will undergo elimination reaction to give alkene in the presence of acidic potassium dichromate?

- a) Primary alcohol b) Secondary alcohol c) Tertiary alcohol d) All of above

Ans. c

1.10 The distinction test for primary secondary and tertiary alcohol required to react each of them is-

- a) Conc. HCl and anhydrous SOCl_2 b) Conc. HCl and anhydrous ZnCl_2
b) Conc. HCl and anhydrous CaCl_2 d) Conc. HCl and anhydrous PbCl_2

Ans. b

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

- a) $\text{C}_2\text{H}_5\text{OH}$ b) $\text{C}_6\text{H}_5\text{OH}$ c) H_2CO_3 d) CH_3OH

Ans. b

1.12 Heating phenol with Zn will yield-

- a) Benzene b) Benzoic acid c) Benzaldehyde d) Phenoxide ion

Ans. a

1.13 When phenol is heated with concentrated nitric acid the product is-

- a) Picric acid b) o-nitrophenol c) 1,3,5-trinitro benzene d) p-nitrophenol

Ans. a

1.14 Which compound shows hydrogen bonding?

- a) $\text{C}_2\text{H}_5\text{OH}$ b) C_6H_6 c) C_2H_6 d) CH_2CH_2

Ans. a

1.15 Ethanol can be converted into ethanoic acid by-

- a) Hydrogenation b) Hydration c) Oxidation d) Fermentation

Ans. c

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