

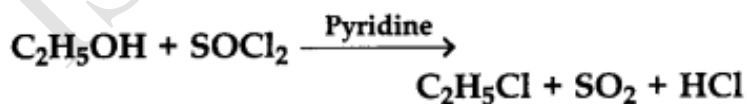
# Alcohols, Phenols and Ethers

1. 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)  $2^\circ > 3^\circ > 1^\circ$

▼ Answer

Answer: a



2.

The above reaction is known as

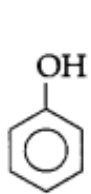
- (a) Williamson's reaction.
- (b) Hofmann's synthesis.
- (c) Mendies reaction,
- (d) Darzen's reaction.

▼ Answer

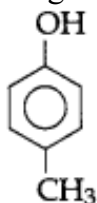
Answer: d

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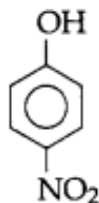
3. The correct acidic strength order of the following



I



II



III

is –

- (a) I > II > III
- (b) III > I > II
- (c) II > III > I
- (d) I > III > II

▼ Answer

Answer: b

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4. Which compound is predominantly formed when phenol is allowed to react with bromine in aqueous medium?

- (a) Picric acid
- (b) O-Bromophenol
- (c) 2, 4, 6-Tribromophenol
- (d) p-Bromophenol

▼ Answer

Answer: c

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5. Phenols are more acidic than alcohols because

- (a) Phenoxide ion is stabilised by resonance
- (b) Phenols are more soluble in polar solvents
- (c) Phenoxide ion does not exhibit resonance
- (d) Alcohols do not lose H atoms at all

▼ Answer

Answer: a

▼ Answer

Answer: d

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6. The compound B is formed in the sequence of the reaction given below:



The compound B is

- (a) Salicylaldehyde
- (b) Benzoic acid
- (c) Salicylic acid
- (d) Cinnamic acid

▼ Answer

Answer: c

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7. Which of the following reagents cannot be used to distinguish between phenol and benzyl alcohol?

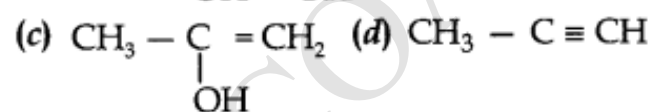
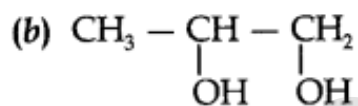
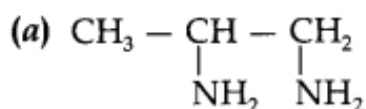
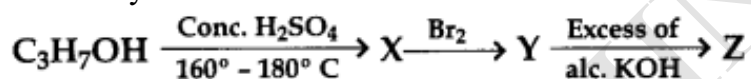
- (a)  $\text{FeCl}_3$
- (b) Litmus soln
- (c)  $\text{Br}_2/\text{CCl}_4$
- (d) All of these

▼ Answer

Answer: c

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8. Identify Z in the series



▼ Answer

Answer: d

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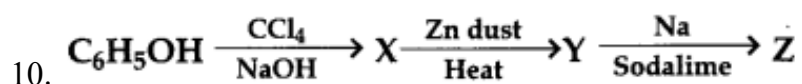
9. 1-propanol and 2-propanol can be best distinguished by

- (a) Oxidation with  $\text{KMnO}_4$  followed by reaction with Fehling solution.
- (b) Oxidation with acidic dichromate followed by reaction with Fehling solution.
- (c) Oxidation by heating with copper followed by reaction with Fehling solution.
- (d) Oxidation with concentrated  $\text{H}_2\text{SO}_4$  followed by reaction with Fehling solution.

▼ Answer

Answer: c

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In the above sequence Z is

- (a) Toluene
- (b) Cresol
- (c) Benzene
- (d) Benzol

▼ Answer

Answer: c

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11. The major organic product in the reaction,  $\text{CH}_3 - \text{O} - \text{CH}(\text{CH}_3)_2 + \text{HI} \rightarrow$  product: is/are

- (a)  $\text{CH}_3\text{I} + (\text{CH}_3)_2\text{CHOH}$
- (b)  $\text{CH}_3\text{OH} + (\text{CH}_3)_2\text{CHI}$
- (c)  $\text{ICH}_2\text{OCH}(\text{CH}_3)_2$
- (d) 
$$\text{CH}_3 - \text{O} - \underset{\text{I}}{\text{C}} - (\text{CH}_3)_2$$

▼ Answer

Answer: a

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