**ALOCHOL,PHENOL & ETHER**

**1. Which of the following alcohols will give a positive Lucas test most rapidly?**
**A) Ethanol**
**B) 1-Butanol**
**C) 2-Butanol**
**D) tert-Butanol**

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**2. Which reagent can distinguish between phenol and ethanol?**
**A) $FeCl_3$**
**B) Na**
**C) NaOH**
**D) HCl**

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**3. In the dehydration of alcohols, the order of ease of dehydration is:**
**A) 1° > 2° > 3°**
**B) 3° > 2° > 1°**
**C) 2° > 3° > 1°**
**D) 3° > 1° > 2°**

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**4. What is the product of the reaction of phenol with bromine water?**
**A) m-Bromophenol**
**B) o-Bromophenol**
**C) 2,4,6-Tribromophenol**
**D) p-Bromophenol**

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**5. Ether on reaction with HI gives:**
**A) Alcohol**
**B) Alkyl iodide**
**C) Phenol**
**D) Acetone**

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**6. Which compound gives effervescence with metallic sodium?**
**A) $CH_3OCH_3$**
**B) Phenol**
**C) Ethanol**
**D) Benzene**

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**7. Which among the following is most acidic?**
**A) Water**
**B) Ethanol**

**C) Phenol**
**D) Methanol**

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**8. Williamson synthesis is used to prepare:**
**A) Aldehydes**
**B) Ketones**
**C) Ethers**
**D) Alcohols**

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**9. The IUPAC name of isopropyl alcohol is:**
**A) 2-Propanol**
**B) 1-Propanol**
**C) Propan-1-ol**
**D) Methanol**

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**10. Which of the following reacts with NaOH but not with Na metal?**
**A) Ethanol**
**B) Phenol**
**C) Ether**
**D) Acetic acid**

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**11. When phenol is heated with zinc dust, the product is:**
**A) Aniline**
**B) Benzene**
**C) Toluene**
**D) Phenylzinc**

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**12. What happens when ethyl alcohol is passed over hot alumina ($Al_2O_3$) at 443 K?**
**A) Ethyl iodide is formed**
**B) Acetaldehyde is formed**
**C) Ethene is formed**
**D) Diethyl ether is formed**

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**13. The compound formed by the reaction of sodium ethoxide and ethyl bromide is:**
**A) Ethanol**
**B) Diethyl ether**
**C) Ethene**
**D) Acetone**

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**14. Which of the following can be used to distinguish between 1°, 2°, and 3° alcohols?**
**A) Na metal**
**B) Lucas reagent**
**C) Bromine water**
**D) Tollen's reagent**

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**15. Which of the following is not an alcohol?**
**A) Glycerol**
**B) Methanol**
**C) Ethylene glycol**
**D) Acetone**

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**16. Phenol is more acidic than ethanol due to:**
**A) Hydrogen bonding**
**B) Larger size of phenyl group**
**C) Resonance stabilization of phenoxide ion**
**D) Hyperconjugation**

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**17. Which of the following alcohols does not give $H^+$ ions in aqueous solution?**
**A) Ethanol**
**B) Methanol**
**C) tert-Butyl alcohol**
**D) All of these**

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**18. The reaction of phenol with dil. $HNO_3$ mainly gives:**
**A) o-Nitrophenol**
**B) p-Nitrophenol**
**C) Both A and B**
**D) m-Nitrophenol**

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**19. Ethers are relatively unreactive because:**
**A) They are highly basic**
**B) They form strong hydrogen bonds**
**C) C–O–C bond is stable and inert**
**D) They are aromatic**

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**20. Diethyl ether reacts with excess cold HI to form:**
**A) $CH_3CH_2OH$**
**B) $CH_3CH_2I$**
**C) $CH_3CH_2OH$ and $CH_3CH_2I$**
**D) 2 $CH_3CH_2I$**

## ✅ Answer Key

1. D
2. A
3. B
4. C
5. B
6. C
7. C
8. C
9. A
10. B
11. B
12. C
13. B
14. B
15. D
16. C
17. D
18. C
19. C
20. D