



CHEMISTRY

BOOKS - JEEVITH PUBLICATIONS CHEMISTRY (KANNADA ENGLISH)

ALCOHOLS, PHENOLS AND ETHERS

Questions

1. What are alcohols? Give example.



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2. What are phenols? Give example.



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3. What are primary, secondary and tertiary alcohols?



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4. Give the conversion of alkenes into alcohols.



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5. Give the conversion of carbonyl compounds into alcohols.



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6. Give the conversion of carboxylic acids into alcohols.



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7. Explain the preparation of phenols from cumene.



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8. Alcohols of lower molecular mass of phenols are soluble in water. Give reasons



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9. The boiling points of alcohols and phenol are high. Give reason.



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10. How boiling points varies when number of carbon atoms increases in linear and branched alcohols.



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11. Explain the acidic nature of alcohols.



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12. Explain the acidic nature of phenols.



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13. Among alcohols and phenols which one is more acidic ? And why ?



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14. What is the effect of

Electron withdrawing group on acidity of phenols



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15. What is the effect of

Electron donating group on acidity of alcohols.



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16. What is the effect of

Boiling point of alcohols on increasing number of carbon atoms.



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17. What is the effect of the group on the acidity of phenols?

CH_3



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18. What is the effect of the group on the acidity of phenols?

– NO_2



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19. Explain esterification reaction with an example.



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20. What is acetylation reaction? Explain the acetylation of salicylic acid.



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21. What is Lucas reagent: Give its reaction with primary (1°) and tertiary (3°) alcohols?



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22. Explain the dehydration of primary, secondary and tertiary alcohols.



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23. Explain the mechanism of dehydration of ethanol



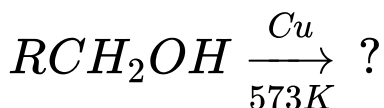
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24. What happens when 1° , 2° , 3° alcohols are passed over heated heated at 573 K.



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25. Complete the following reactions.



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26. Complete the following:



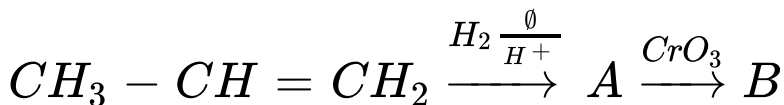
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27. Give two methods of conversion of primary alcohol to aldehyde.



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28. i) Identify 'A' and 'B' in the following equations.



ii) What is Lucas reagent?



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29. Give the conversion of secondary alcohol to ketone.



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30. Explain nitration of phenol.



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31. Explain bromination of phenol.



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32. Explain Kolbe's reaction.



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33. Explain Reimer-Tiemann reaction.



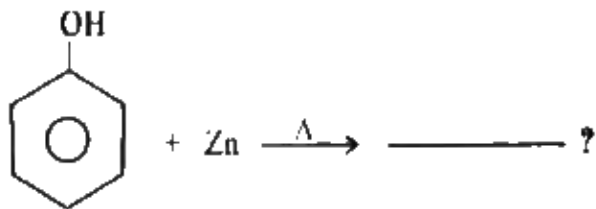
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34. What happens when phenol is heated with zinc dust? Give equation.



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35. Complete the equation



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36. Explain the oxidation of phenol with chromic acid.

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37. How methoanol is produced commercially?



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38. Name the alcohol which is called as wood spirit.



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39. How ethanol is manufactured from molasses.



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40. How is diethyl ether prepared?



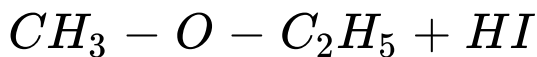
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41. Explain Williamson's ether synthesis.



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42. Complete the following equations:



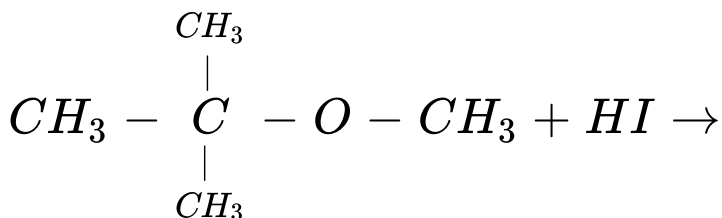
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43. Complete the following equations:



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44. Complete the following equations:



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45. What is the action of bromine in ethanoic acid on anisole?



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46. Explain Friedel-Crafts alkylation of anisole.



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47. How anisole reacts with acetyl chloride $[CH_3COCl]$ in the presence of anhydrous $AlCl_3$? Write the chemical equation for the reaction.



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48. Write the IUPAC name of major product formed in Friedel-Crafts acylation of anisole.



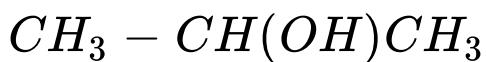
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49. A carbonyl compound (P) with the formula C_2H_4O reacts with CH_3MgX followed by hydrolysis to form an alcohol (Q). Name the alcohol Q.



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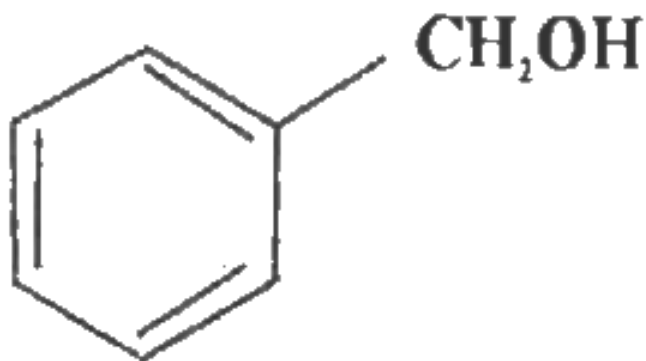
50. Name the major product formed when the vapours of following alcohols are passed over hot copper at 573K.



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51. Name the major product formed when the vapours of following alcohols are passed over

hot cooper at 573K.



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52. Arrange water, ethanol and phenol in increasing order of a acidity and give reason for your answer.

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53. A carboxylic acid is treated with an alcohol in presence of Conc. H_2SO_4 . Name the reaction. Give its general equations.



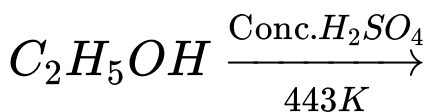
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54. Name the major product formed when sodium phenoxide is heated with carbon dioxide at 400K and at 4 to 7 atmospheric pressure. What is the name of the reaction?



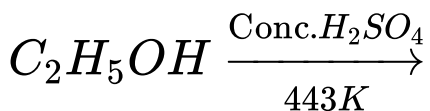
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55. Mention the major product formed in the following



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56. Mention the major product formed in the following



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57. On treating phenol with chloroform in presence of aqueous sodium hydroxide at 340 followed by acid hydrolysis give the product.

Write the name of the product



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58. On treating phenol with chloroform in presence of aqueous sodium hydroxide at 340

followed by acid hydrolysis give the product.

Give the name of the reactions.



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59. $R - COOH \rightarrow R - CH_2 - OH$. Name the reagent used in this conversion.



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60. An organic compound with molecular formula C_6H_6O gives white ppt with bromine

water. Identify the functional group in the compound. Write the chemical equation for the reaction.



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