



CHEMISTRY

BOOKS - JEEVITH PUBLICATIONS

CHEMISTRY (KANNADA ENGLISH)

ALDEHYDES, KETONES AND

CARBOXYLIC ACIDS

Questions

1. Mention the hybridised state of carbonyl carbon.



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2. Give the IUPAC name of CH_3CHO



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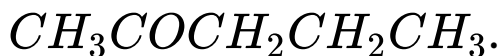
3. Give the IUPAC name of





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4. Write the IUPAC name of

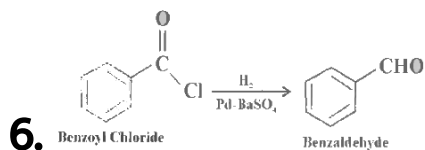


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5. Explain Rosenmund reduction of benzoyl chloride.



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Name the reaction.



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7. How would you prepare acetaldehyde from acetyl chloride? Name the reaction.



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8. Explain Etards reaction.

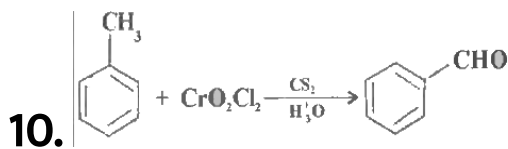


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9. Which oxidising agent is used in Etard reaction?



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Write the name of the above reaction.

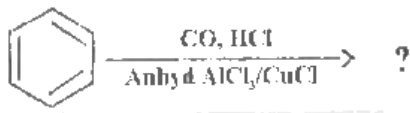


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11. How benzene is converted into benzaldehyde by Gattermann-Koch reaction?

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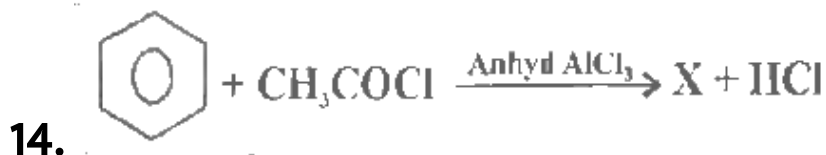
12. Complete the reaction



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13. How ketone is obtained from Friedel craft's acylation reaction ?

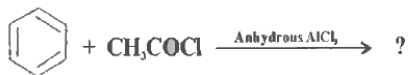
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Write the structure of X in the above reaction.

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15. Write the organic compound formed in the following reaction.



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16. Explain the mechanism of addition of HCN to a carbonyl group presence of a base.



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17. Explain the addition of ammonia and its derivatives with aldehydes and ketones.



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18. What happens when the carbonyl compounds are treated with hydrazine? Write the reaction.



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19. Complete the reaction



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20. Write the organic compound formed in the following reaction



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21. How does propanone (CH_3COCH_3) reacts with hydrazine? Give equation.



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22. Most of ketones does not give addition compound with sodium bisulphite. Give reason.



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23. Give reason : Acetophenone does not react with saturated sodium bisulphite solution.



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24. Aldehydes are generally more reactive than ketones towards nucleophilic addition reactions. Give two reasons.



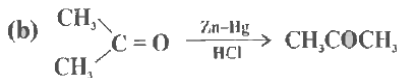
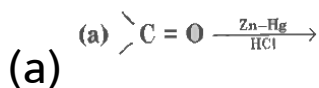
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25. Name the reagent used in the conversion of ketone to hydrocarbon. Name the reaction.



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26. Complete and name the following reactions.



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27. Explain Wolff-Kishner reduction.



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28. What are P and Q?



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29. What is Tollen's reagent? How it reacts with aldehydes?



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30. What is Fehlig's solution? How it reacts with aldehydes?



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31. Explain haloform reaction.

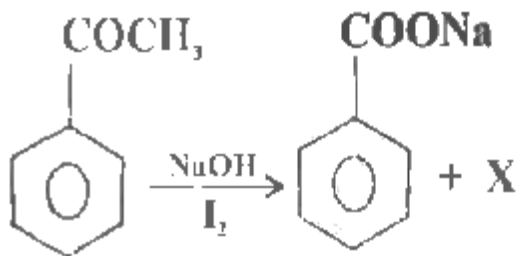


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32. Explain iodoform reaction.

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33. Give the IUPAC name of X.



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34. Give reason: α - hydrogen atoms of aldehydes and ketones are acidic.





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35. Explain aldol condensation with an example.



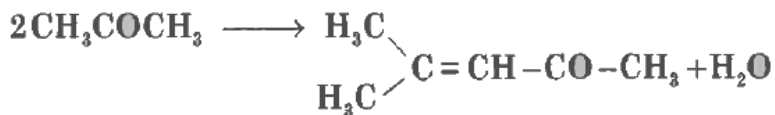
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36. What is the action of dil. NaOH on ethanal (acetaldehyde)? Name the reaction.



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37. Write the name of the reaction.



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38. What is cross aldol condensation. Give an example.



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39. How does benzaldehyde reacts with acetophenone in presence of dilute alkali.



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40. Ethanal(CH_3CHO) undergoes aldol condensation reaction. Give reason.



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41. Explain Cannizzaro reaction with an example.

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42. Identify A and B in the following reaction.



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43. Acetaldehyde does not undergo Cannizzaro reaction. Why ?



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44. Formaldehyde undergoes Cannizzaro's reaction. Give reason.



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45. Given two uses of formaldehyde.



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46. How are carboxylic acids prepared from Grignard reagents ?



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47. What are Y and Z in the following reactions ?

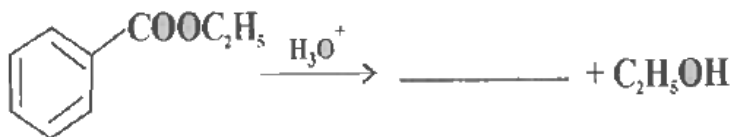


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48. Complete the following reaction.

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49. Complete the following reaction.



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50. How are carboxylic acids prepared from nitriles ?



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51. Carboxylic acids are more acidic than phenols. Give reason.



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52. Explain the effect of electron withdrawing groups. [EWG] on the acidity of carboxylic acids. Give examples.



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53. What is the effect of electron withdrawing group on the acidity of carboxylic acid ?



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54. Explain the effect of electron donating group (EDG) on the acidity of carboxylic acids. Give example.



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55. Among formic acid and acetic acid, which is more acidic ? Give reason.



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56. How PCl_3 , PCl_5 and $SOCl_2$ reacts with carboxylic acids ?



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57. Write the chemical equation to convert ethanoic acid to ethanoic anhydride.



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58. The equation for

The reaction between carboxylic acids and
 PCl_5



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59. Give the equation for

The reaction between formaldehyde and con.
KOH.



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60. Give the equation for

The formation of oxime from carbonyl compound.



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61. A carboxylic acid is heated with alcohol in presence of con. H_2SO_4 . Name of the reaction

Give its general equation.



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62. Complete the equation.



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63. How carboxylic acids react with ammonia ?



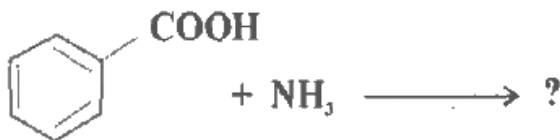
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64. How do you convert benzoic acid to benzamide ? Write the equation.



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65. What is the major product of the following reaction.



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66. Explain decarboxylation reaction with an example.



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67. What is soda lime ?

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68. Explain HVZ reaction with example.

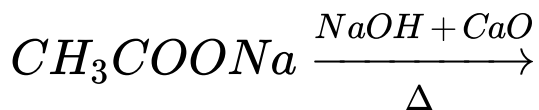
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69. Complete the reaction



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70. Complete the equation



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