



CHEMISTRY

BOOKS - MODERN PUBLICATION

ORGANIC CHEMISTRY

Exercise

1. Match the following columns

1. Match the diseases of **Group (A)** with the vitamins **Group (B)** correctly. [2019(A)]

Group (A)	Group (B)
(a) Xerophthalmia	(i) Vitamin
(b) Scurvy	(ii) Vitamin K.
(c) Coagulation of blood	(iii) Vitamin A.
(d) Rickets.	(iv) Vitamin C



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2. How can you convert ethanol to ethene ?



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3. What are tranquilizers? Give two examples.



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4. What happens when calcium acetate is dry distilled ?



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5. What are antibiotics? Writedown the name of two antibiotics.



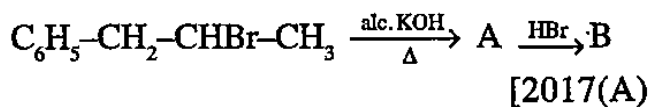
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6. What is Benzoin condensation ? Give name of the product and also give equation.



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7. Identify A and B in the following reaction.



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8. Explain Carbylamine reaction.



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9. How is toluene converted to benzene ?



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10. Match the following columns

10. Correctly match List-I with List - II :

- | List - I | List - II |
|-------------|-----------------|
| A. Terylene | 1. Insecticide |
| B. Insulin | 2. Lipid |
| C. Lecithin | 3. Hormone |
| D. Lindane | 4. Polymer |
| | 5. Carbohydrate |

[2016 (A)]



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11. What is Cannizzaro's reaction? Give equation.



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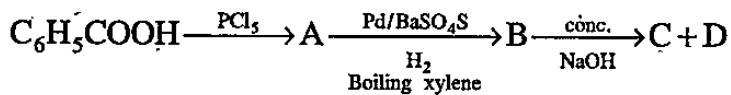
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13. Write the chemical test to distinguish between formic acid and acetic acid.

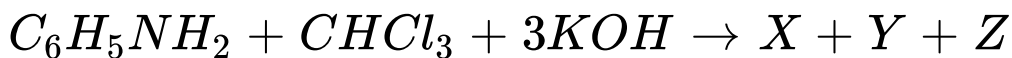
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14. Identify A,B,C and D :



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15. Identify X, Y and Z and name the reaction.



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16. What are antiseptics ? Give three names of antiseptics.



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17. Match the following columns

17. Correctly match List – I with List –II :

- | List – I | List – II |
|--------------------|-----------------|
| A. Crocin | 1. Polymer |
| B. Surf | 2. Rhodenticide |
| C. Bakelite | 3. Antipyretic |
| *D. Zinc phosphide | 4. Detergent |
| | 5. Insecticide |

[2014 (A)]



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18. How Benzene can be converted to Benzoic acid ?



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19. Explain - why methylamine is a stronger base than aniline ?



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20. How does Tollens reagent react with formic acid ? Explain with equation.



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21. How will you convert aniline to chlorobenzene ?



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22. How can convert benzene to benzoic acid ?



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23. What are soaps and detergents?



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24. What is Rosenmund reduction reaction?



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25. What is Rosenmund reduction reaction?



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26. Write the structural formulae of the three derivatives of monocarboxylic acid. Identify the functional group present in them.



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27. "Direct iodination of benzene is difficult." Explain. Suggest an alternative route for the synthesis of iodo benzene.



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28. What are essential and nonessential amino acids ? Give two examples of essential amino acids.



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29. How is benzene converted to toluene ?



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30. What is the action of benzaldehyde with *HCN*?



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31. What happens when ethyl acetate is treated with sodium ethoxide and ethyl alcohol? Give equation.

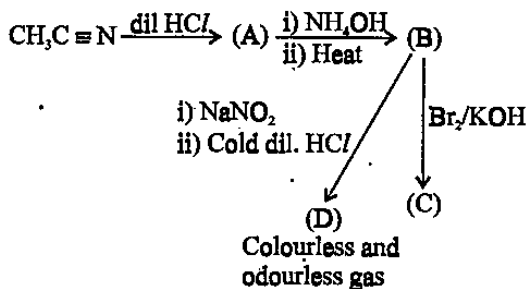


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32. Identify A, B, C and D.

32. Identify A, B, C and D.

[2012 (A)]



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33. What happens when propionic acid is treated with thionyl chloride?



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34. What is Reimer-Tiemann reaction?



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35. Suggest two tests to distinguish between ethanol and phenol.



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36. How is methylamine converted to trimethyl amine?



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37. How is acetaldehyde converted to acetone ?



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38. An organic compound having molecular formula C_3H_7Br on treatment with aqueous KOH solution gave the compound (A). When the vapour of the compound (A) was passed

over red hot copper at $300^{\circ}C$ compound (B) was formed. The compound (B) on treatment with I_2 and dil. NaOH, formed a yellow solid (C). Identify the compounds A,B and C.



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39. Discuss Reimer-Tiemann reaction.



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40. Elucidate the differences between soaps and detergents.



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41. Answer the following

What do you mean by biodegradable and non-biodegradable polymers? Give an example of a synthetic biodegradable polymer.



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42. What are antioxidants ? Give two examples.



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43. Why phenol is acidic in nature ?



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44. Explain the Hofmann bromamide reaction with one example.



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45. What are addition and condensation polymerisation? Give one example of each.



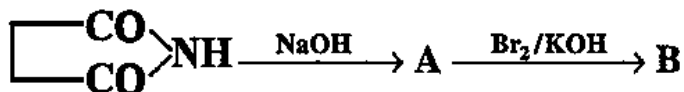
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46. Explain the amphoteric behaviour of amino acids.



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47. Complete the following reaction and write the names of A and B.



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48. What is Stephen reduction reaction? Give an example.



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49. How is benzoic acid converted to benzaldehyde?



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50. A compound 'A' having molecular formula $C_2H_5O_2N$, on reaction with Sn and conc. HCl gives a compound B which when treated with $NaNO_2$ and dil. HCl gave compound C having molecular formula C_2H_6O . The compound C when treated with Na metal give effervescences

and when reacts with CrO_3 give a saturated aldehyde having 2 carbon atoms. Determine the structures and names of A, B and C along with the sequence of reactions.



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51. How do you prepare benzoic acid from n-propyl benzene



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52. What is Schmidt reaction ? Write the structure of the product of this reaction .



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53. Do the conversion: Benzene to m-dichlorobenzene

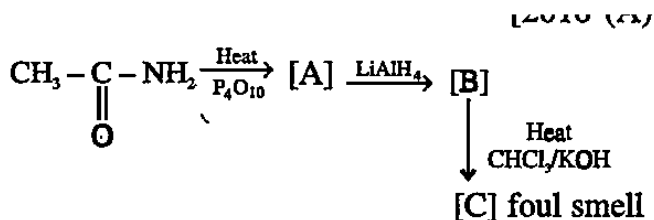


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54. Suggest a chemical test to distinguish between pentan-2-one and pentan-3-one. Give equation.

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55. Identity A, B, C and name the reaction involved in the transformation of B and C.



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56. How is acetone converted to mesityl oxide ?



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57. What is Sandmeyer's reaction ?



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58. Elucidate the differences between soaps and detergents.



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59. Why aniline is less basic than methyl amine?



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60. What are the different types of carbohydrates? Give one example of each.



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61. What is coupling reaction ? Give an example.



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62. Write the structure formulae of all the isomeric amines with molecular formula C_3H_9N and classify them. Why dimethyl amine is more basic than methyl amine?



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63. Explain Friedel - Craft reaction with two examples.



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64. Why aniline is less basic than methyl amine?



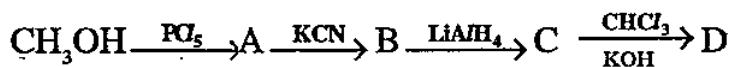
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65. Explain why phenol is acidic while C_2H_5OH is neutral?



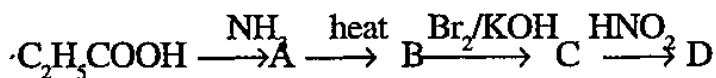
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66. Identify A, B, C and D.



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67. Identify A, B, C and D.



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