

Class : XIIth Date : Subject : CHEMISTRY DPP No. : 3

Topic :- Aldehydes, Ketones & Carboxylic Acids

- A compound `A' has a molecular formula C₂Cl₃OH. A reduces Fehling solution and on oxidation produces a monocarboxylic acid *B*.*A* can also be obtained by the action of Cl₂ on ethanol. *A* is a) Chloral b) CHCl₃ c) CH₃Cl d) Chloroacetic acid
- 2. Predict the products in the given reaction.



3. In the scheme given below, the total number of intramolecular aldol condensation products formed from ''Y'' is

| 4. | Calcium propanoate on refluxing yields: | | | |
|-----|---|---|---|-------------------------------|
| | a) Propanol-2 | b)Propanone-2 | c) Pentanone-3 | d)Pentanone-2 |
| 5. | When a mixture of one mole of benzoic acid and one mole of phenol in water is treated with one mole of NaHCO ₃ , the product formed will consist of a) ϕ COOH + ϕ ONa b) ϕ COONa + ϕ ONa c) ϕ COONa + ϕ OH d) ϕ COO ϕ + ϕ COOCO ϕ | | | |
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| 6. | Aldehyde not showing a) Paraldehyde | Cannizaro's reaction is b) Chloral | c) Formaldehyde | d)Acetaldehyde |
| 7. | Compound (<i>A</i>) (molect form a product B (molect ammonical silver nitrat sodium acetate gives a a) $CH_3CH_2CH = NNHCCc) (CH_3)_2C = NCONHNI$ | ular formula C_3H_8O) is tecular formula C_3H_6O).' ecular formula C_3H_6O).' te.'B'when treated with product 'C'. Identify the DNH ₂ H ₂ | reated with acidified potassium dichromate to 'forms a shining silver mirror on warming with an aqueous solution of H ₂ NCONHNH ₂ .HCl and structure of ' <i>C</i> '. b) (CH ₃) ₂ C = NNHCONH ₂ d) CH ₃ CH ₂ CH = NCONHNH ₂ | |
| 8. | Methyl cyanide can be a) Reduction | converted into acetic ac b) Hydrolysis | id by: c) Electrolysis | d)Decarboxylation |
| 9. | A product obtained by the reaction of X with hydroxylamine and on further reduction gives H NH_2 | | | |
| | $C_2H_5-C-C(CH_3)_{3.}$ | Hence, the compound <i>X</i> | K can be | |
| | a) 2,2-dimethyl-3-penta | anone | b) 3,3-dimethyl-3-buta | none |
| | c) 1-methyl-3-pentanol | ne | d) Diethyl ketone | |
| 10. | The main reason for the fact than carboxylic acids can undergo ionization is: a) Absence of α -H-atom b) Resonance stabilization of carboxylate ion c) High reactivity of α -H-atom d) Hydrogen bonding | | | |
| 11. | Acetamide reacts with a) C_2H_5OH | maximum ease with: b)C ₂ H ₅ NH ₂ | c) H ₂ 0 | d) <i>aq</i> . NaOH |
| 12. | Formalin is the commercial name of a) Formic acid c) 40% aqueous solution of methanal | | b) Fluroform d) <i>para</i> formaldehyde | |
| 13. | Which of the following ? | carboxylic acids is not r | educed to the correspo | nding 1° alcohol byLiAlH $_4$ |

a) BrCH₂CH₂CH₂COOH b) Cyclohexane carboxylic acid



19. Acetone is treated with excess of ethanol in the presence of hydrochloric acid. The product obtained is:



20. When acetaldehyde is heated with Fehling's solution, it gives a red precipitate of:

