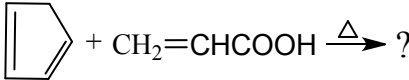

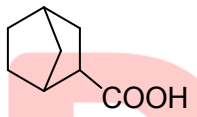
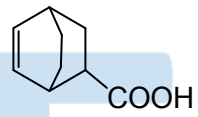
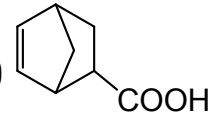


Class : XIIth
Date :

Subject : CHEMISTRY
DPP No. : 5

Topic :- Aldehydes, Ketones & Carboxylic Acids

- Tartronic acid is obtained from tartaric acid by:
a) HBr b) HI c) Tollen's reagent d) PCl₅
-  + CH₂=CHCOOH $\xrightarrow{\Delta}$?
Product is
a)  b)  c)  d) 
- A compound, containing only carbon, hydrogen and oxygen, has a molecular weight of 44. On complete oxidation it is converted into a compound of molecular weight 60. The original compound is
a) An aldehyde b) An acid c) An alcohol d) An ether
- Which of the following reagents is useful for separating aniline from a mixture of aniline and nitrobenzene?
a) NaOH(aq.) b) H₂O c) NaHCO₃(aq.) d) HCl(aq.)
- How will you separate a miscible mixture of C₆H₆ + CHCl₃?
a) Sublimation b) Filtration c) Distillation d) Crystallization
- An organic compound has C and H percentage in the ratio 6 : 1 and C and O percentage in the ratio 3 : 4. The compound is:
a) HCHO b) CH₃OH c) CH₃CH₂OH d) (COOH)₂
- Potassium cyanate is heated with ammonium sulphate. The product formed is
a) Urea b) Ammonia c) Potassium sulphate d) Ammonium cyanide
- 2-pentanone and 3-pentanone can be distinguished by
a) Cannizzaro's reaction b) Aldol condensation
c) Iodoform reaction d) Clemmensen's reduction

9. Acetyl bromide reacts with excess of CH_3MgI followed by treatment with a saturated solution of NH_4Cl gives
- a) Acetone b) Acetamide c) 2-methyl-2-propanol d) Acetyl iodide
10. Formalin is
- a) Solution of fructose b) 40% aq. sol. Of HCHO
c) 40% HCHO + 60% CH_3CHO d) None of the above
11. Aldol condensation is given by
- a) Trimethylacetaldehyde b) Acetaldehyde
c) Benzaldehyde d) Formaldehyde
12. Which reaction is used for detecting the presence of carbonyl group?
- a) Reaction with hydrazine
b) Reaction with phenyl hydrazine
c) Reaction with hydroxylamine
d) All of the above
13. The product obtained in the reaction
- $$\text{CH}_3\text{CH}_2\text{CO}_2\text{H} \xrightarrow{\text{Cl}_2/\text{P}} \text{is}$$
- a) $\begin{array}{c} \text{CH}_3\text{CHCO}_2\text{H} \\ | \\ \text{Cl} \end{array}$ b) $\text{ClCH}_2\text{CH}_2\text{CO}_2\text{H}$ c) $\begin{array}{c} \text{Cl} \\ | \\ \text{CH}_3-\text{C}-\text{CO}_2\text{H} \\ | \\ \text{Cl} \end{array}$ d) $\text{Cl}_2\text{CHCH}_2\text{CO}_2\text{H}$
14. An organic compound contains carbon, hydrogen and oxygen. Its elemental analysis gave, C, 38.71% and H, 9.67%. The empirical formula of the compound would be:
- a) CH_2O b) CHO c) CH_4O d) CH_3O
15. $\text{CH}_3\text{COCl} \xrightarrow[\text{[H}_2\text{]}]{\text{Pd/BaSO}_4} \text{A}$
- The isomers of CH_3COCl and A will be respectively
- a) CH_2ClCHO , oxirane b) Chloral, vinyl alcohol
c) α -chloro ethyl alcohol, epoxy ethane d) None of the above
16. Acid chlorides react with Grignard's reagents to give:
- a) Esters b) Ethers c) Carbonyl compounds d) None of these
17. Which of the following give an explosive RDX, on nitration?
- a) Toluene b) Benzene c) Guanidine d) Urotropine
18. The conversion of $-\text{COOH}$ group to $-\text{NH}_2$ group can be made by:
- a) Wurtz reaction b) Claisen condensation c) Stephen's reduction d) Schmidt reaction

19. In question 178 step (2) can be thought of an/a:
- a) Neutralization
 - b) Electrophilic attack at the carbonyl carbon
 - c) Nucleophilic attack of *N*-lone pair at the carbonyl carbon leading to substitution
 - d) Nucleophilic addition reaction
20. Acetaldehyde forms a white crystalline precipitate on mixing with asolution of
- a) Acidic, Zn – Hg
 - b) Alcoholic, Na₂SO₃
 - c) Saturated aqueous, NaHSO₃
 - d) Aqueous, NaCl

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