DPP
DAILY PRACTICE PROBLEMS

Class : XIIth Date :

Subject : CHEMISTRY DPP No. : 7

Topic :- Aldehydes, Ketones & Carboxylic Acids

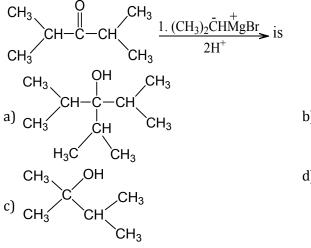
1. An acyl halide is formed when PCl5 reacts with an:a) Acidb) Alcoholc) Amined) Ester

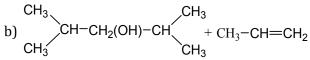
- Generally it is more difficult to purify organic compounds than inorganic compounds because:
 a) They are very unstable
 - b) Their m. p. and b. p. are low
 - c) Organic compounds have low solubility
 - d) Physical constants of organic compounds and the impurities associated with them are very close to each other
- 3. The acetophenone can be converted to ethylbenzene by reaction with a) LiAlH₄ b) H_2NOH c) Pd/BaSO₄ – H₂ d) Zn – Hg/HCl
- 4. When propionic acid is treated with aqueous sodium bicarbonate, CO_2 is liberated. The C from CO_2 comes from
 - a) Methyl group
 - c) Methylene group

b) Carboxylic acid group d) Bicarbonate

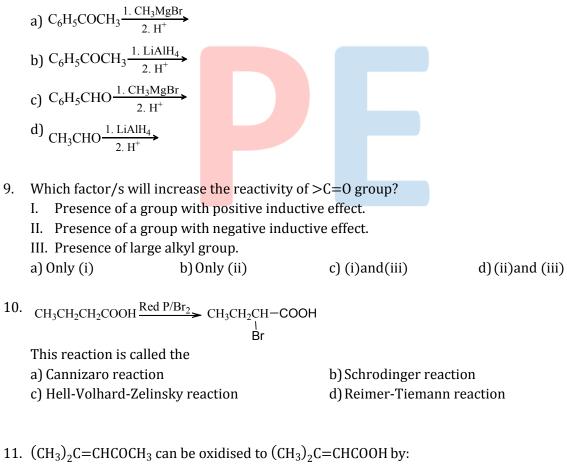
- 5. Boiling points of carboxylic acid are:
 - a) Lower than corresponding alcohols
 - b) Higher than corresponding alcohols
 - c) Equal to that of corresponding alcohols
 - d) None of the above
- 6. The —COOH group in a carboxylic acid can be replaced by 'H' by heating the acid with:
 - a) Zn with HCl
 - b) H_2 in presence of nickel
 - c) Sodalime
 - d) Bromine and concentrated aqueous alkali

7. The product obtained in the reaction



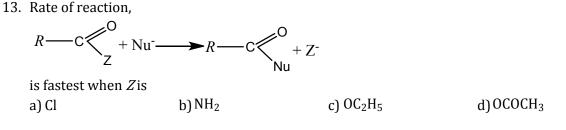


- d) There is no reaction
- 8. Which of the following would produce secondary alcohol?



a) Cu at 300°C b) KMnO₄ c) Chromic acid d) NaOI

12. The correct order of decreasing boiling points of CH₃CONH₂ (*A*), CH₃COCl (*B*), CH₃COOH (*C*) and (CH₃CO)₂O (D) is:
a) A > D > C > B b) A > B > C > D c) D > C > B > A d) None of these



- 14. Which is useful for separating benzoic acid from a mixture of benzoic acid and methyl benzoate?
 - a) NaHCO₃(aq.) b) Dil. HCl c) Dil. H₂SO₄ d) Dil. HNO₃
- 15. The compound *X*, in the reaction is $X \xrightarrow{CH_3CHO} Y \xrightarrow{Hydrolysis} Mg(OH)I + CH_3COOH$ a) CH₃CHO b) CO₂ c) (CH₃)₂CO d) HCHO 16. Which of the following does not undergo polymerization? a) CH₃CHO b) HCHO c) CH₃COCH₃ d) None of these 17. The reaction ,

 $\begin{array}{c} RCOOAg + Br_2 \xrightarrow{CCl_4} RBr + AgBr + CO_2 \text{ is called:} \\ a) HVZ reaction \\ reaction \end{array} b) Hunsdiecker \\ reaction \\ c) Hofmann's reaction \\ d) Carbylamine \\ reaction \\ reaction \\ \end{array}$

- 18. Methyl ketones are characterised through:
 - a) The Tollen's reagent
 - b) The iodoform test
 - c) The Schiff's test
 - d) The Benedict's reagent
- 19. An organic compound *X* contains *Y* and *Z* impurities. Their solubility differs slightly. They may be separated by:
 - a) Simple crystallization
 - b) Fractional crystallization
 - c) Sublimation
 - d) Fractional distillation

20. Which of the following reactants on reaction with conc. NaOH followed by acidification gives following lactone as the product

