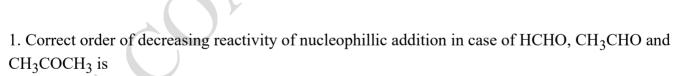
Aldehydes, Ketones and Carboxylic Acids



- (a) $CH_3 COH_3 > CH_3 CHO > HCHO$
- (b) $HCHO > CH_3CHO > CH_3COCH_3$
- (c) $CH_3COCH_3 > HCHO > CH_3CHO$
- (d) $CH_3CHO > HCHO > CH_3COCH_3$

▼ Answer

Answer: b

2. The reagent with which both acetaldehyde and acetone react easily is

(a) Fehling's reagent

- (b) Grignard's reagent
- (c) Schiff's reagent
- (d) Tollen's reagent

▼ Answer

Answer: b

3 2HCHO ^{50%} NaOH → CH₃OH + HCOONa

The above chemical reaction represents

- (a) Rosenmund's reaction.
- (b) Cannizaro's reaction.
- (c) Kolbe's reaction,
- (d) Etard's reaction.

▼ Answer

Answer: b

- 4. For distinction between pentan-2-one and pentan-3-one, which reagent can be employed?
- (a) $K_2Cr_2O_7/H^+$
- (b) ZnHg/HCl
- (c) $NaOH/I_2$
- (d) AgNO₃/NH₄OH

▼ Answer

Answer: c

- 5. Which of the following will undergo aldol condensation?
- (a) $CH_2 = CHCHO$
- (b) CH = CCHO
- (c) C_6H_5CHO
- (d) CH₃CH₂CHO

▼ Answer

Answer: d

- 6. Compound 'A' $C_5H_{10}O$ forms a phenyl hydrazone and gives a negative Tollen's reagent test and iodoform test. On reduction with Zn+Hg/HCl, compound A gives n-pentane. The compound 'A' is
- (a) Primary alcohol
- (b) Aldehyde

- (c) Secondary alcohol
- (d) Ketone

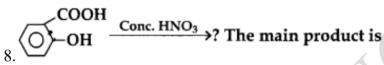
▼ Answer

Answer: b

- 7. Tert Butyl alcohol can be obtained by treating with CH3MgBr followed by hydrolysis
- (a) HCHO
- (b) CH₃CHO
- (c) CH₃COCH₃
- (d) CH₃CH₂CHO

▼ Answer

Answer: c



- (a) 3-Nitrosalicylic acid
- (b) 3, 5-Dinitrosalicylic acid
- (c) m-Nitrobenzoic acid
- (d) Picric acid

▼ Answer

Answer: d

9. The end product (C) in the following reaction sequence is

$$\begin{array}{c|c}
 & \xrightarrow{\text{Br}_2/\text{Red P}} A \xrightarrow{\text{alc. KOH}} B \\
\hline
 & \xrightarrow{\text{NaOH + CaO}} C
\end{array}$$

- (a) CH₃ CH₂ COONa
- (b) $CH_2 = CH_2$
- (c) $CH_3 CH_3$
- (d) $CH_2 = CH-COOH$

▼ Answer

Answer: b

- 10. Benzone acid is weaker than but stronger than
- (a) p-toluic acid, o-toluic acid
- (b) p-nitrobenzoic acid, p-toluic acid (c) acetic acid, formic acid
- (d) fomic acid, acetic acid

▼ Answer

Answer: d