Aldehydes, Ketones and Carboxylic Acids

Correct order of decreasing reactivity of nucleophillic addition in case of HCHO, CH₃CHO and CH₃COCH₃ is
 (a) CH₃ COH₃ > CH₃CHO > HCHO
 (b) HCHO > CH₃CHO > CH₃COCH₃
 (c) CH₃COCH₃ > HCHO > CH₃CHO
 (d) CH₃CHO > HCHO > CH₃COCH₃

▼ Answer

Answer: b

2. The reagent with which both acetaldehyde and acetone react easily is (a) Fehling's reagent

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- (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) K₂Cr₂O₇/H⁺
(b) ZnHg/HCl
(c) NaOH/I₂
(d) AgNO₃/NH₄OH

▼ Answer

Answer: c

5. Which of the following will undergo aldol condensation?
(a) CH₂ = CHCHO
(b) CH = CCHO
(c) C₆H₅CHO
(d) CH₃CH₂CHO

▼ Answer

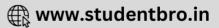
Answer: d

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

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(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

COOH Conc. HNO₃ →? The main product is ΟН 8. (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

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

Answer: b

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- 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



