1. Which of the following substance produce acetaldehyde on dry distillation?

A. (CH3COO)2Ca
B. (HCOO)2Ca
C. both (a) and (b)
D. none

Answer: Option **C**

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2. Which of the following will have the highest boiling point?

A. methanal
B. ethanal
C. propanal
D. hexanone

Answer: Option **D**

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3. Which of the following reaction is not shown by ketones?

A. reaction with HCN
B. reaction with NaHSO3
C. reaction with 2 4 dinitrophenyl hydrazine
D. reaction with Fehling solution

Answer: Option **D**

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4. The carbon atom of carbonyl group is

A. sp hybridized
B. sp2 hybridized
C. cp3 hybridized
D. dsp2 hybridized

Answer: Option **B**

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5. Which of the following substances does not give iodoform test?

A. acetaldehyde
B. ethyl alcohol
C. methyl alcohol
D. acetone

Answer: Option **C**

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6. Formalin is _____ % solution of formaldehyde in water

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A. 10%
B. 20%
C. 40%
D. 60%

Answer: Option **C**

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7. Which of the following aldehydes shows rapid reaction with sodium nitroprusside?

A. formaldehyde
B. accetaldehyde
C. benzaldehyde
D. acetone

Answer: Option **D**

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8. Acetone reacts with HCN to form a cyanohydrin. It is an example of

A. electronphilic addition
B. electrophilic substitution
C. nucleophilic addition
D. nucleophilic substitution

Answer: Option **C**

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9. Which of the following compounds will react with Tollens reagent?

A. CH3-CHO
B. CH3-CH-CH3
C. CH3-COOH
D. CH3-CO-CH2-CH3

Answer: Option **A**

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10. Which of the following reactions may be associated with aldehyde and ketone?

A. nucleophile addition
B. polymerization
C. oxidation
D. all of the above

Answer: Option **D**

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