ECAT Chemistry Chapter 23 Aldehydes and Ketones

Sr	Questions	Answers Choice
1	Which is used for the reduction of aldehydes and ketones	A. NaBH₄ B. Pt/Pd C. Ni D. All of these
2	Formalin is:	A. 10% solution of formaldehyde in water B. 20% solution of formaldehyde in water C. 40% solution of formaldehyde in water D. 60% solution of formaldehyde in water
3	From which of the following tertiary butyl alcohol is obtained by the action of methyl magnesium iodide?	A. HCHO B. CH₃CHO C. CH₃COCH₃ D. CO₂
4	The carbon of a carbonyl group is:	A. sp hybridized B. sp²hybridized C. sp³Hybidized D. None of these
5	During the mechanism of aldol condensation a/an _____ is formed	A. Oxide B. Alkali C. Alkoxide ion D. None of these
6	Hydrogenation of bezoyl chloride in presence of Pd on $BaSO_4$gives	A. Benzyl alcohol B. Benzaldehyde C. Benzoic acid D. Phenol
7	Cannizzzaro's reaction is not given by:	A. Formaldehyde B. Acetaldehyde C. Benzaldehyde D. Trimethyl
8	Which is not true about acetophenone?	A. Reacts to form 2,4-dintrophenyl hydrazine B. Reacts with Tollen's reagent to form silver mirror C. Reacts with I₂/NaOH to form iodoform D. On oxidation with alkaline KMnO₄followed by hydrolysis gives benzoic acid
9	Which reagent will distinguish a ketone from an aldehyde	A. Br₂ B. 2, 4-dinitrophenylhydrazine C. NaBH₄ D. Tollen's reagent
10	Which of the following reactions is used for detecting presence of carbonyl group?	A. Reaction with hydroxylamine B. Reaction with hydrazine C. Reaction with phenyl hydrazine D. All
11	In Tolten's best, the end product is _____ formed	A. White ppts B. Red ppts C. Yellow ppts D. Silver mirror
12	An organic compound has the following properties ; It gives a positive tri-iodomethane test; it gives a yellow ppt, with 2, 4-DNP regent; it does not react with Tollen's reagent . Which compound would give these results	A. CH₃CHO B. CH₃CH₂OH C. CH₃CH₂COCH₃ D. CH₃CH₂CH₂CHO
13	Reaction of Grignard's reagent with formaldehyde gives:	A. pri-alcohol B. sec-alcohol C. ter-alcohol D. carboxylic
14	The addition of HCN to carbonyl compounds is an example of	A. Nucleopihlic substituion B. Electrophilic addition C. Nueleophilic addition D. Electrophilic substitution
15	The color of ppts formed by Fehling's test is	A. Brick red B. Red C. Yellow

		D. Orange
16	The product of the reaction between propanone and HCN is hydrolysed under acidic conditions. What is the formula of the final product	A. CH₃CH(OH)COOH B. CH₃CH₂CH(OH)COOH C. (CH₃)₂C(OH)COOH D. CH₃CH₂CH₂COOH
17	A food chemist wants to create the odour of pineapples for a product. An ester with this odour has the formula $C_3H_7COOC_2H_5$.Which pair of reagents would produce this ester	A. C₂H₅Cl and C₃H₇COOH B. C₂H₅OH and C₃H₇CONH₂ C. C₂H₅OH and C₃H₇COOH D. C₃H₇OH and C₂H₅COCl
18	Aledehydes ketones can be prepared form alcohols by their:	A. Reduction B. Oxidation C. Decomposition D. Synthesis
19	Which of the following is hypnotic?	A. Acetaldehyde B. Metaldehyde C. Paraldehyde D. None
20	Which isomer of $C_5H_{11}OH$ gives, one dehydration, the greastest number of different alkenes	