



**1.1 Which of following factors affect the reaction between ammonia derivative and aldehyde/ketone?**

a) pH b) Temperature c) pressure d) catalyst

**1.2 Which of the following compound gives cannizaro reaction?**

a) Acetaldehyde b) Acetone c) Chloral d) Formaldehyde

**1.3 Which of the following is a product in the reaction of acetaldehyde with dilute NaOH?**

a) Carbanion b) Enol c) Enolate d) Aldol

**1.4 Compound which doesn't give stereoisomers on treatment with hydroxylamine is-**

a) Benzaldehyde b) Acetophenone c) Benzophenone d) 2-Butanone

**1.5 Hydrazine reacts with aldehyde or ketone to form-**

a) Imine b) Hydrazone c) Amide d) Oxime

**1.6 Reaction of ethanoic anhydride with limited supply of  $\text{C}_2\text{H}_5\text{MgI}$ , in presence of dry ether followed by hydrolysis gives-**

a) Acetone b) an alcohol c) Acetaldehyde d) Alkyl halide

**1.7 Aldehyde can be chemically distinguished from ketone by-**

a) Tollens reagent b) Sodium bisulphite addition c) Brady's reagent d) All of these

**1.8 Secondary alcohol on treatment with Copper at 573K forms-**

a) Carboxylic acid b) Ketone c) Alkene d) alkyne

**1.9  $\text{Ba(OH)}_2$  is used for Aldol condensation of-**

a) Amine b) Both c and d c) Acetaldehyde d) Acetone

**1.10 Benzoin condensation is shown by-**

a) Acetaldehyde b) Benzaldehyde c) Chloral d) Formaldehyde

**1.11Ninhydrineforms stable geminal-di-ol, due to-**

a) Intra molecular H-bond formation b) Due to release in angle strain  
c) Inductive effect d) Hyperconjugation

**1.12A  $C_5H_{12}O$  compound is optically active, and is oxidized by PCC in  $CH_2Cl_2$  to an optically active  $C_5H_{10}O$  product, which is racemised in acid or base. Which of the following best fits these facts-**

a) 2-pentanol b) 2-methoxy butane c) 2-methyl-1-butanol d) 3-methyl-1-butanol

**1.132,4-dinitrophenyl hydrazineon treatment with Aldehyde forms-**

a) 2,4-DNPH b) Oxime c) Semicarbazone d) Phenyl hydrazone

**1.14Aldehyde and ketone both undergo the type of chemical reaction/reactions-**

a) Condensation b) rearrangement c) addition d) all of these

**1.15 Which of the following compounds would not be a possible product from the mixed aldol reaction of chloral and formaldehyde-**

a) 3-hydroxybutanal b) 2-ethyl-3-hydroxybutanal c) No reaction takes place d) 3-hydroxyhexanal

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