Name: _____	**Subject:** Chemistry	**Class:** 12th	**Time:** 60 minutes	Total Marks:	**30**
Chapter No.12	**MJDexpert.com**			Obtained marks	

Note: Please attempt any 7 short questions from Question 2. Also, attempt both parts (a and b) of Question 3. Cutting and removal of any content is strictly prohibited.

Objective-Section

Q. 1 Encircle the correct answer. (8x1=8)

1. **Cannizzaro's reaction is not given by**
   (A) Formaldehyde (B) Acetaldehyde (C) Benzaldehyde (D) Trimethyl acetaldehyde
2. **Ketones are prepared by the oxidation of**
   (A) Primary alcohol (B) Secondary alcohol (C) tertiary alcohol (D) methyl alcohol
3. **The compound which gives a positive test with Fehling's solution is**
   (A) Acetic acid (B) Acetone (C) Ethyl acetate (D) Formaldehyde
4. **Hydroxy propanoic acid is called**
   (A) Oxalic acid (B) Lactic acid (C) Citric acid (D) Aspartic acid
5. **Which of the following reagents will react with both aldehydes and ketones**
   (A) Grignard's reagent (B) Tollen's reagent (C) Fehling's reagent (D) Benedict reagent
6. **Which of the following compounds will not give an iodoform test with I_2/ NaOH**
   (A) Acetaldehyde (B) Acetone (C) Butanone (D) 3 – Pentanone
7. **Aldehydes and Ketones can be detected by**
   (A) 2,4 —DNP test (B) Tollen's test (C) Sodium Nitroprusside test (D) Benedicts solution test
8. **Which one has a yellow or orange crystalline ppt?**
   (A) Acetone hydrazone (B) 2,4-DNPH (C) Ethanal mime (D) Bisulphite addition product

Subjective-Section

Q.2 Write short answers of any SEVEN (7) of the following questions: (7x2=14)

1. How formalin is prepared on the commercial scale from Methyl alcohol?
2. Write the general mechanism of **Base catalyzed addition** reactions of carbonyl compounds
3. Write equations for the reactions of hydroxylamine with ethanal and acetone.
4. Explain chemistry of Tollen's **test**.
5. Distinguish between Methanal and Propanone by chemical test.
6. Write chemistry of Fehling's solution test.
7. Write two uses of Formaldehyde.
8. Write down four uses of acetaldehyde.

Q.No.3 Long Question: (4+4=8)

a) Describe with mechanism aldol - condensation reaction.
b) What type of Aldehydes give Cannizaro's reaction? Give its mechanism.