Quality Checkers Only way to fulfill your dreams	12th Science : Chemistry Aldehydes, Ketones and Carboxylic acids,	**DATE:** **TIME: 1 Hr** **MARKS: 20**
	SEAT NO:	

Note:-

1. All Questions are compulsory.
2. Numbers on the right indicate full marks.

Section A
Multiple choice question

(4)

1. Reduction by $LiAlH_4$ of hydrolysed product of an ester gives

   A) two acids
   B) two aldehydes
   C) one molecule of alcohol and another of carboxylic acid
   D) two alcohols

2. Benzoic acid gives benzene on being heated with X and phenol gives benzene on being heated with Y. Therefore, X and Y are respectively

   A) sodalime and copper
   B) Zn dust and NaOH
   C) Zn dust and sodalime
   D) sodalime and zinc dust

3. Benzaldehyde when treated with alkaline $KMnO_4$ yields

   A) Benzyl alcohol
   B) Benzoic acid
   C) CO_2 and H_2O
   D) Salicylic acid

4. Para aldehyde is obtained by polymerization of:

   A) CH_3CH_2-CHO
   B) CH_3CHO
   C) CH_3OH
   D) HCHO

Section B
Attempt any 3 questions

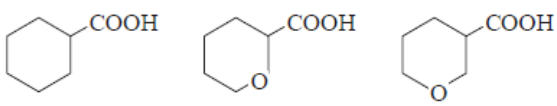
(6)

1. Explain the naming when two or more functional groups are in a benzene ring.
2. Name the product obtained by the oxidation of 1,2,3,4-tetrahydronaphthalene with acidified potassium permanganate.
3. Explain the states of : (a) Formaldehyde (b) Acetaldehyde
4. How does > C = C < differ from > C = O group in chemical reactions?

Section C
Attempt Any 2 Questions

(6)

1. Arrange the following carboxylic acids with increasing order of their acidic strength and justify your answer.



2. Write a note on : Carboxylic acids

3. Explain acidic character of carboxylic acid.

Section D
Attend any 1 question

(4)

1. State the rules applied in IUPAC names of aldehydes and carboxylic acids.

2. Predict the products (name and structure) in the following reactions.

1. $CH_3CH_2CN \xrightarrow[dil.HCl]{\Delta}$ 2. $CH_3 - CONH_2 \xrightarrow[dil.HCl]{\Delta}$ 3. $C_6H_5 - CH_2 - CH_3 \xrightarrow[\Delta]{alk.KMnO_4}$

4. $C_6H_5 - COO - C_2H_5 \xrightarrow[dil.H2SO4]{\Delta}$ 5. $CH_3MgBr \xrightarrow[(ii)\, dil.\, HCl]{(i)\, dry\, ice/dry\, ether}$