Model Question Paper

Carboxylic Acids - Part V

12th Standard

Chemistry

Reg.No. : | | | | | | |

I.Answer all the questions.
II.Use blue pen only.
III.Question number16 is compulsory.

Time : 01:30:00 Hrs

Total Marks : 80

Part-A

5 x 1 = 5

1) .....is used as an antiseptic and astringent

(a) silver nitrate (b) silver lactate (c) silver acetate (d) lactic acid

2) Oxalic acid can be prepared from

(a) glycol (b) cyanogen (c) both 'a' and 'b' (d) lactic acid

3) .....is used an an urinary antiseptic

(a) Urotropine (b) C_6H_5COOH (c) CH_3COOH (d) both 'a' and 'b'

4) The carbonyl compounds are

(a) aldehydes (b) ketones (c) acids (d) all the above

5) $CH_3CO \quad NH_2 \xrightarrow{P_2O_5} CH_3 - C \equiv N$,This reaction is

(a) hydration (b) dehydration (c) decarboxylation (d) deoxidation

Part-B

5 x 3 = 15

6) Give the structure and IUPAC names of

(i) oxalic acid (ii)malonic acid (iii)succinic acid (iv)adipic acids

7) Give the uses of succinic acid.

8) How do the groups Cl,OH,NO_2 and carbonyl influence the acidic nature inaromatic acids.

9) How does acetic anhydride react with PCl_5?

10) What happens when acetamide is hydrolysed?

Part-C

10 x 5 = 50

11) How does formic acid react with

(i) Na_2CO_3 (ii) Zn,Mg (iii) CH_3OH/H^+

(iv) conc.H_2SO_4 (v) PCl_5

12) Write a note on reducing and decarboxylating properties of formic acid

13) How will you get oxalic acid from

(i)sodium formate (ii)glycol?

14) How do oxalic acid and succinic acid react with the following

(i) NaOH (ii)NH_3 (iii)PCl_5 (iv)on heating (v) acidfied $KMnO_4$

Part-D

3 x 10 = 30

15) a) How does benzoic acid react with

(i)NaOH (ii) NH_4OH (iii)C_2H_5OH/H^+?

b) Explain how salicylic acid is obtained by Kolbe reaction with mechanism.

16) a) a) How are(i)acetyl chloride and (ii)acetic anhydride prepared?

b) Give the various methods of preparation of methyl acetate

(OR)

b) a) Give the uses of (i)acetyl chloride (ii) acetic anhydride and (iii) methyl acetate

b) Give the various methods of preparation of acetamide.

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