

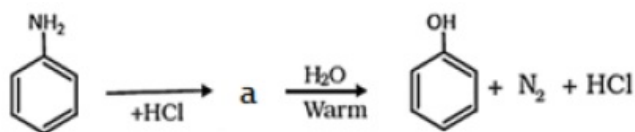
Time: One Hour

Max. Marks: 25

Instruction:

- Solve any 25 questions

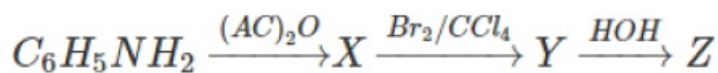
- Which one of the following compound is obtained by the oxidation of secondary alcohols ?  
(A)Aldehyde (B)Ketone (C)Amine (D)Ether
- Which of the following is not the example of dihydric alcohol?  
(A)Glycerin (B)Catechol (C)Resorcinol (D)p-hydroxy phenol
- Ethylene glycol on treatment with phosphorus tri-iodide yields  
(A)ethylene (B)ethylene di-iodide (C)ethyliodide (D)ethane
- Reaction of aqueous sodium hydroxide on chlorobenzene gives which of the following products?  
(A)o-chlorophenol (B)p-chlorophenol (C)phenol (D)no reaction
- When phenol is treated with excess of bromine water, it gives which of the following product?  
(A)3-bromophenol (B)2,4 dibromophenol (C)4-bromophenol (D)2,4,6-tribromophenol
- What will be the product 'a' in the given reaction?



- (A)Enolate form (B)Benzene diazonium chloride (C)hydroxybenzene (D)Chlorobenzene
- Ketones can be prepared in one step from which of the following process?  
(A)Hydrolysis of esters (B)Oxidation of primary alcohol (C)Oxidation of secondary alcohol (D)Reaction of acid halide with alcohols
- The oxidation of benzyl chloride with lead nitrate gives which of the following compound?  
(A)Benzaldehyde (B)Benzoic acid (C)Benzyl alcohol (D)Acetaldehyde
- What reagents will be used in the preparation of benzaldehyde via Gattermann Koch synthesis?  
(A)Carbon dioxide and HCl (B)Carbon monoxide and HCl (C)Oxygen and H2SO4 (D)Carbon monoxide and H2SO4
- Formation of aromatic ketone forms from benzene by CH3COCl?  
(A)Friedal craft alkylation (B)Friedal craft dealkylation (C)Friedal craft acylation (D)Friedal craft hydroxyalkylation
- What is the name of the process in which aldehyde get oxidise in presence of air?  
(A)Calcination (B)Cannizzaro reaction (C)Autoxidation (D)Baeyer villiger oxidation
- Condensation reaction is the reverse of which of the following reaction?  
(A)lock and key hypothesis (B)hydrolysis (C)oxidation (D)glycogen formation
- Reduction of Aldehydes to hydrocarbon take place in the presence of which of the following?  
(A)Zn amalgam and HCl acid (B)Pd/BaSO4 (C)Anhydrous AlCl3 (D)Ni/Pt
- The conversion of acetophenone to acetanilide is best accomplished by using which reaction?  
(A)Curtius rearrangement (B)Backmann rearrangement (C)Lossen rearrangement (D)Hofmann rearrangement
- Which of the following is the strongest acid?  
(A)CH3COOH (B)FCH2COOH (C)ClCH2COOH (D)BrCH2COOH
- Benzoyl chloride is prepared from benzoic acid by which of the following?  
(A)Cl2, hv (B)SO2, Cl2 (C)Cl2, H2O (D)SOCl2
- What is the name of the reaction when acetamide changes into methylamine?  
(A)Hofmann bromamide reaction (B)Hofmann reaction (C)Friedel-Craft's reaction (D)Hinsberg reaction
- When methyl iodide is heated with ammonia, what is the product obtained?  
(A)Methylamine (B)Dimethylamine (C)Trimethylamine (D)A mixture of Methylamine, Dimethylamine & Trimethylamine
- Which one of the following compound gives a secondary amine on reduction?  
(A)Nitromethane (B)Nitrobenzene (C)Methyl isocyanide (D)Methyl cyanide
- Gabriel's phthalimide synthesis is used for the preparation of which amine?  
(A)Primary aromatic amine (B)Secondary amine (C)Primary aliphatic amine (D)Tertiary amine
- What is the characteristic smell of liquid amines?  
(A)Fish like smell (B)Rotten egg smell (C)Fruity smell (D)Bitter almond smell
- What is the correct decreasing order of the basic character of the three amines and ammonia?  
(A)NH3 > CH3NH2 > C2H5NH2 > C6H5NH2 (B)C2H5NH2 > CH3NH2 > NH3 > C6H5NH2 (C)C6H5NH2 > C2H5NH2 > CH3NH2 > NH3 (D)CH3NH2 > C2H5NH2 > C6H5NH2 > NH3
- The action of nitrous acid on ethyl amine gives which of the following?

# Examination October 2020

- (A) Ethane (B) Ammonia (C) Ethyl alcohol (D) Nitroethane  
24 When chloroform reacts with ethyl amine in presence of alcoholic KOH, the compound formed is which of the following?  
(A) Ethyl cyanide (B) Ethyl isocyanide (C) Formic acid (D) An amide  
25 Identify the product Z in the following reaction.



- (A) p-Bromoaniline (B) p-Bromoacetophenone (C) o-Bromoacetophenone (D) o-Bromoacetanilide  
26  $\alpha$ -bromosuccinic acid is heated with silver oxide in a water to form ....  
(A) Malic acid (B) Maleic acid (C) Oxalic acid (D) Tartaric acid  
27 Hydroxylation of maleic acid in presence of KMnO<sub>4</sub> to gives..  
(A) Malic acid (B) Maleic acid (C) Oxalic acid (D) Tartaric acid  
28 2-propenoic acid is called as..  
(A) Citric acid (B) Oxalic acid (C) Acrylic acid (D) Malic acid  
29 The dehydration of alcohols is an example of \_\_\_\_\_  
(A) Bimolecular elimination reaction (B) SN<sub>2</sub> reaction (C) SN<sub>1</sub> reaction (D) Unimolecular elimination reaction  
30 Picric acid is formed when phenol react with which of the following reactant?  
(A) Formaldehyde (B) Hydrogen (C) Nitric acid (D) Hydrochloric acid