

ECAT Chemistry Online Test

Sr	Questions	Answers Choice
1	Which of the following compounds on boiling with $\text{KMnO}_4(\text{alk})$ and subsequent acidification will not give benzoic acid?	A. Benzyl alcohol B. Acetophenone C. Anisole D. Toluene
2	Saponification of ethyl benzoate with caustic soda	A. Benzyl alcohol, ethanoic acid B. Sodium benzoate, ethanol C. Benzoic acid, sodium ethoxide D. Phenol, ethanoic acid
3	Ethyl acetate reacts with CH_3MgBr to form	A. Secondary alcohol B. Tertiary alcohol C. Primary alcohol and acid D. Acid
4	Lower carboxylic acids are soluble in water due to	A. Low molecular weight B. Hydrogen bonding C. Dissociation into ions D. Easy hydrolysis
5	Hydrolysis of trichloromethane with aqueous KOH gives	A. Potassium formate B. Acetylene C. Chloral D. Methanol
6	If acetyl chloride is reducing in the presence of BaSO_4 and Pd, then	A. CH_3CHO is formed B. $\text{CH}_3\text{CH}_2\text{OH}$ is formed C. CH_3COOH is formed D. CH_3COCH_3 is formed
7	Which of the following is the strongest acid?	A. CF_3COOH B. CBr_3COOH C. CH_3COOH D. CCl_3COOH
8	The order of decreasing ease of reaction with ammonia is	A. Anhydrides, esters, ethers B. Anhydrides, ethers, esters C. Ethers, anhydrides, esters D. Esters, ethers, anhydrides
9	The acid showing salt like character in aqueous solution is	A. Acetic acid B. Benzoic acid C. Formic acid D. α -Aminoacetic acid
10	In the presence of Aluminium ethoxide, aldehydes get converted into esters. The reaction is known as	A. Schmidt reaction B. Aldol condensation C. Beckmann's rearrangement reaction D. Tischenko reaction
11	A colourless liquid, at room temperature reacts with soda lime to form sodium salt of carboxylic acid and ammonia gas. The liquid is	A. Propanamide B. Propanoic acid C. Formamide D. Methyl Ethanoate
12	Lactic acid on heating with dil. H_2SO_4 gives	A. Acetic acid B. Propionic acid C. Acrylic acid D. Formic acid
13	From the following values of dissociation constants of four acids which value represents the strongest acid?	A. 2×10^{-2} B. 0.02×10^{-1} C. 3×10^{-4} D. 2×10^{-4}
14	Acyl halide is formed by reacting PCl_5 with	A. Alcohol B. Ester C. Amide D. Anhydride

		D. Both carboxylic acids as well as esters
15	Which of the following order is incorrect w.r.t property indicated?	A. Formic acid > Acetic acid > Propionic acid (ACID STRENGTH) B. Cyclohexanol > Phenol > Benzoic acid (ACID STRENGTH) C. Benzamide > Aniline > Cyclohexylamine (ACID STRENGTH) D. FCH_2COOH > ClCH_2COOH > BrCH_2COOH (ACID STRENGTH)
16	What is formed when oxalic acid is dehydrated by conc. H_2SO_4 ?	A. $\text{C} + \text{CO}_2$ B. CO C. CO_2 D. $\text{CO} + \text{CO}_2$
17	Acetamide and NaOBr/OH^- produce	A. Ethanamine B. Methanamine C. CH_3CN D. NH_3
18	Acidic hydrolysis of acetamide gives	A. Acetaldehyde B. Acetic acid C. Methyl amine D. Formic acid
19	Acetamide is	A. Highly acidic B. Highly basic C. Neutral D. amphoteric
20	Ethyl alcohol reacts with acetyl chloride to form	A. Ethyl chloride B. Acetic acid C. Methylacetate D. Ethyleacetate
21	Weakest acid among the followings is	A. Acetic acid B. Phenol C. Water D. Acetylene
22	An organic acid having molecular formula $\text{C}_2\text{H}_4\text{O}_2$ is	A. Formic acid B. Acetic acid C. Oxalic acid D. Propionic acid
23	Glacial Acetic acid is	A. Pure acetic acid at 100°C B. Acetic acid mixed with methanol C. Pure acetic acid at 0°C D. Pure acetic acid above 16.6°C
24	The reaction of acetaldehyde with HCN followed by hydrolysis gives a product which exhibits	A. Metamerism B. Tautomerism C. Enantiomerism D. Geometrical isomerism
25	Which of the following does give violet colour with neutral ferric chloride?	A. Acetic acid B. Salicylic acid C. Formic acid D. Benzoic acid
26	Aspirin is	A. Acetyl salicylic acid B. Phenyl salicylic acid C. Salicylic acid D. Benzoic acid
27	When acetamide reacts with Br_2 and caustic soda, then we get	A. Acetic acid B. Bromoacetic acid C. Methyl amine D. Ethylamine
28	Amides on treatment with Br_2 and KOH are converted into amines, the reaction is known as	A. Hoffmann's bromamide reaction B. Hoffmann's methylation C. Gabriel phthalimide reaction D. H.V.Z reaction

A. Less acidic

29 Between CH_3COOH and HCOOH , HCOOH will be

- A. Less acidic
- B. Equally acidic
- C. More acidic
- D. None

30 Of the following four reactions, formic acid and acetic acid differ in which respect?

- A. Replacement of hydrogen by sodium
- B. Formation of ester with alcohol
- C. Reduction of Fehling solution
- D. Blue litmus reaction