## **CARBOXYLIC ACID**

## MULTIPLE CHOICE QUESTIONS

1.	Ninhydrin reacts with amino acid to form product which has colour:							
	(a)	Blue	(b)	Violet				
	(c)	Bluish violet	(d)	Red				
2.	Slig	Slight oxidation of primary alcohol gives:						
	(a)	Ketone	(b)	Organic acid				
	(c)	Aldehyde	(d)	An ester				
3.	Wh	Which of the following is the strongest acid:						
	(a)	НСООН	(b)	CH₃COOH				
	(c)	$CH_3 - CH_2 - COOH$	(d)	Cl – CH <sub>2</sub> – COOH				
4.	Wh	Which of the following esters shows the flavour of orange:						
	(a)	Benzyl acetate	(b)	Iso-butyl formate				
	(c)	Octyl acetate	(d)	Ethyl butyrate				
5.	Wh	Which acid is used in the manufacture of synthetic fibre:						
	(a)	Formic acid	(b)	Acetic acid				
	(c)	Carbonic acid	(d)	Benzoic acid				
6.		Some amino acids are most important because they are the final product of hydrolysis of peptide and protein and they are:						
	(a)	α-amino acid	(b)	β-amino acid				
	(c)	γ-amino acid	(d)	All of the above				
7.		In amino acid proton is transferred from one point to the other point and this dipolar ion is called:						
	(a)	Oxonium ion	(b)	Carbonium ion				
	(c)	Zwitter ion	(d)	Carbanion				
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8.	Which of the following is neutral amino acid:						
	(a)	Glycine	(b)	Histidine			
	(c)	Lysine	(d)	Aspartic acid			
9.	size are called:						
	(a)	Essential	(b)	Non-essential			
	(c)	Acidic	(d)	Basic			
10.	Amino acids are classified into following types:						
	(a)	Acidic	(b)	Basic			
	(c)	Neutral	(d)	All			
11.	By convention a peptide having molecular mass upto 10,000 is called:						
	(a)	Peptide	(b)	Polypeptide			
	(c)	Protein	(d)	Dipeptide			
12.	Acetic acid is manufactured commercially by:						
	(a)	Distillation	(b)	Fermentation			
	(c)	Ozonolysis	(d)	Esterification			
13.	Which of the following derivative can't be prepared directly from acetic acid:						
	(a)	Acetic anhydride	(b)	Acetyl chloride			
	(c)	Acetamide	(d)	Ethyl ethanoate			
14.	Which reagent is used to reduce a carboxylic group to an alcohol:						
	(a)	$H_2/Ni$	(b)	HI/P			
	(c)	NaBH <sub>4</sub>	(d)	LiAlH <sub>4</sub>			
15.	The solution of which acid is used for seasoning of food:						
	(a)	Formic acid	(b)	Acetic acid			
	(c)	Benzoic acid	(d)	Butanoic acid			
16.	Which one of the following element is not present in all proteins:						
	(a)	Carbon	(b)	Hydrogen			
	(c)	Nitrogen	(d)	Sulphur			

		$CH_2 - CO$	OH				
17.	The IUPAC name of   is: CH <sub>2</sub> - COOH						
	(a)	Succinic acid	(b)	Butanoic acid			
	(c)	Dibutanoic acid	(d)	But-1, 4-dioc acid			
18.	$C_2H$	$I_5Br \xrightarrow{KCN} A \xrightarrow{H_2O/H^+}$	. В				
	The compound 'B' is:						
	(a)	Acetic acid	(b)	Propanoic acid			
	(c)	Ethyl alcohol	(d)	Propionaldehyde			
19.	Which of the following will react with both ethanol and ethanoic acid at room temperature:						
	(a)	CaCO <sub>3</sub>	(b)	CuO			
	(c)	Na-metal	(d)	CH <sub>3</sub> OH			
20.	Which one of the following is not an amino acid:						
	(a)	Alanine	(b)	Glycine			
	(c)	Aspartic acid	(d)	Aniline			
21.	Which one of the following metal can evolve hydrogen from acetic acid:						
	(a)	Na	(b)	Fe			
	(c)	Al	(d)	Cu			
22.	Which one of the following is not a dicarboxylic acid:						
	(a)	Malonic acid	(b)	Valeric acid			
	(c)	Maleic acid	(d)	Succinic acid			
		НО – СН – СО					
23.	The compound is commonly called: HO – CH – COOH						
	(a)	Lactic acid	(b)	Citric acid			
	(c)	Tartaric acid	(d)	Succinic acid			
24.	Reverse of esterification is known as:						
	(a)	Trans esterification	(b)	Dehydration			
	(c)	Hydrolysis	(d)	Decarboxylation			

25.	The general formula of monocarboxylic acid:							
	(a)	$C_nH_nCOOH$	(b)	$C_nH_{2n+1}COOH$				
	(c)	$C_nH_{2n}COOH$	(d)	$C_nH_{2n-2}COOH$				
26.	The	The simplest of all amino acid:						
	(a)	Lysine	(b)	Glycine				
	(c)	Alanine	(d)	Aspartic acid				
27.	Carboxylic acid can be changed to acid chloride by the treatment with:							
	(a)	$S_2Cl_2$	(b)	$SOCl_2$				
	(c)	HC1	(d)	HOC1				
28.	Which product is not formed when acetic acid reacts with SOCl <sub>2</sub> (Thiony chloride):							
	(a)	CH <sub>3</sub> Cl	(b)	CH <sub>3</sub> COCl				
	(c)	HCl	(d)	$SO_2$				
29.	Which one of the following reagent is used to convert acetic acid to ethane?							
	(a)	LiAlH <sub>4</sub>	(b)	HI and Red P				
	(c)	$P_2O_5$	(d)	SOCl <sub>2</sub> and pyridine				
30.	The weakest carboxylic acid:							
	(a)	НСООН	(b)	CH <sub>3</sub> CH <sub>2</sub> COOH				
	(c)	CH <sub>3</sub> COOH	(d)	ClCH <sub>2</sub> COOH				
		ans	we	rs				

1.	(c)	2.	(c)	3.	(a)	4.	(c)	5.	(b)
6.	(a)	7.	(c)	8.	(a)	9.	(b)	10.	(d)
11.	(b)	12.	(b)	13.	(c)	14.	(d)	15.	(b)
16.	(d)	17.	(d)	18.	(b)	19.	(c)	20.	(d)
21.	(a)	22.	(b)	23.	(c)	24.	(c)	25.	(b)
26.	(b)	27.	(b)	28.	(a)	29.	(b)	30.	(b)