

## ECAT Chemistry Chapter 25 Macromolecules Online Test

Sr	Questions	Answers Choice
1	Enzymes catalyse all biological reactions occurring in the cell. What is true about an enzyme	A. Enzyme is a small molecule B. Enzyme is acidic in nature C. Enzyme is a protein D. Enzyme is a lipid
2	There are 20 amino acids found in protein which is not the property of these amino acids	A. They are all $\alpha$ -amino acids B. They are all optically active C. They have high decomposition point D. They are water soluble
3	Which functional group is present in glycerol tristearate	A. Carboxylic acid B. Alcohol C. Aldehyde D. Ester
4	At what pH glycine shows the structure $\text{H}_3\text{N}^+ \text{--} \text{CH}_2 \text{--} \text{COOH}$	A. 2 B. 7 C. 10 D. 14
5	Glycine at pH7 has the structure	A. $\text{H}_2\text{N} \text{--} \text{CH}_2 \text{--} \text{COOH}$ B. $\text{H}_3\text{N}^+ \text{--} \text{CH}_2 \text{--} \text{COOH}$ C. $\text{H}_2\text{N} \text{--} \text{CH}_2 \text{--} \text{COO}^-$ D. $\text{H}_3\text{N}^+ \text{--} \text{CH}_2 \text{--} \text{COO}^-$
6	Which test is not given by both glucose and fructose	A. Give yellow ppt of $\text{CHI}_3$ with alkaline aqueous iodine B. With 2, 4-DNPH give yellow ppt of hydrazone C. Evolve $\text{H}_2$ gas with Na metal D. Oxidised with $[\text{Ag}(\text{NH}_3)_2]^+$ i.e. Tollen's reagent
7	A nucleoside may be	A. Ribonucleoside B. Deoxyribonucleoside C. Both a and b D. None
8	The proteins which are derived by conjugated proteins are called as	A. Simple protein B. Complex protein C. Derived protein D. None
9	How is the secondary structure of protein stabilized	A. Through hydrogen bonding B. Through ionic bonding C. Through van der Waals forces D. Through covalent bonding
10	The protein which only yield amino acids and their derivatives	A. Simple proteins B. Complex proteins C. Derived protein D. All of these
11	When a nitrogenous base combine with a sugar it is called	A. Ribose B. Nucleotides C. Nucleoside D. None
12	Which is the polymer that has amide linkage in its structure	A. PVC B. Poly ethene C. Polyester D. Polyurethane

## U. Nylon

13	Oxidation reduction is done by	A. Oxidoreductase B. Lipases C. Lyase D. None of these
14	Protein may have	A. Primary structure B. Secondary structure C. Tertiary structure D. All of these
15	Sterols, vitamin D and terpenese belong to	A. Simple lipids B. Complex lipids C. Derived lipids D. None
16	The clotting time of blood is increased due to the deficiency of	A. Vitamin A B. Vitamin K C. Vitamin D D. Vitamin C
17	Ricket is caused due to the deficiency of vitamin	A. A B. D C. B D. E
18	What is the most common catalyst used in hydrogenation of oils	A. Cobalt B. Nickel C. Tungsten D. Copper
19	$\beta$ -D-glucose is a monomer for	A. Strach B. Cellulose C. Glycogen D. Protein
20	Monosaccharides belong to the group	A. Lipids B. Fats C. Proteins D. Carbohydrates
21	Which one of the following is a water soluble vitamin	A. D B. K C. A D. Ascorbic acid (Vic C)
22	Vegetable oils are	A. Unsaturated fatty acids B. Glycerides of unsaturated fatty acids C. Glyccerides of saturated fatty acids D. Essential oils obtained from plants
23	The fibre which is made form acrylonitrile as monomer	A. PVC B. Rayon fibre C. Acrylic fibre D. Polyester fibre
24	Plastics are a pollution problem because many plastics	A. Are made from petroleum B. Are very inflammable C. Burn to produce toxic fumes D. Decompose to produce toxic products
25	Purines include	A. Adenine B. Guanine C. Both a and b D. None
26	Which of these polymers is an addition polymer	A. Nylon 6,6 B. Polystyrene C. Terylene D. Epoxy resin
27	Enzymes are chemically	A. Carbohydrates B. Proteins C. Fatty acids D. Phospholipids
28	Which is not an enzyme	A. Transverses B. Lipase C. Lyase D. None of these
29	$(CH_2O)_n$ is general formula for	A. Monosaccharides B. Oiligosaccharides C. Polysaccharides D. None of these

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Which of the following is the repeating monomeric unit in cellulose

- A. Sucrose
- B. Maltose
- C. Cellobiose
- D. Glucose