

## BIO-202 Current Important MCQS (Final Term)

1. Reversible inhibitors binds through \_\_\_\_\_ Non Covalent bond
2. DNA disruption occurs in laboratory at \_\_\_\_\_ pH, Heated above 80°C or Salt concentration
3. Archidonic acids is formed by \_\_\_\_\_ Linoleic acid
4. Co enzymes are formed when proteins bind \_\_\_\_\_ Metallic , organic compound NAD etc
5. Chief components of bee wax is \_\_\_\_\_ myricyl palmitate
6. Bile is synthesized by \_\_\_\_\_ and stored in \_\_\_\_\_ - liver-Gallbladder
7. Eukaryotic ribosomes have 2 sub units \_\_\_\_\_ larger 60s and smaller 40s
8. Kw of water at 25°C is \_\_\_\_\_  $10^{-14}$
9. Michaelis-Menten kinetics is the exception for \_\_\_\_\_ regulatory enzymes
10. Optimum pH of pepsin is \_\_\_\_\_ pH 2
11. phosphorylation of sugar result in \_\_\_\_\_ D-glucose-6-phosphate
12. No of Amino Acids often occur in  $\beta$  turns \_\_\_\_\_ 2
13. Which doesnot occurs in  $\alpha$ -Helices \_\_\_\_\_ Glycine
14. Side chain in sterols is at \_\_\_\_\_ C17
15. DNA Helix two strand of DNA hold together by \_\_\_\_\_ Hydrogen Bonding
16. pKa value of Alanine \_\_\_\_\_ 2.32
17. Purine includes \_\_\_\_\_ (Adenine and guanine)
18. Thymine and uracil are different by one \_\_\_\_\_ group (Methyl group)
19. Triacylglycerols are composed of three fatty acids and joined with one glycerol by \_\_\_\_\_ Ester linkage
20. Which of the following is a Halogens \_\_\_\_\_ chlorine, bromine and iodine
21. HDL contain \_\_\_\_\_ % Protein 50%
22. About \_\_\_\_\_ % of CO<sub>2</sub> is carried in blood as bicarbonates \_\_\_\_\_ 80-85%
23. No of carbons in Palmitic Acid \_\_\_\_\_ 16C
24. (RNA)—the "working copies" of the (DNA) \_\_\_\_\_ -
25. The difference between the energy levels of the ground state and the transition state is the \_\_\_\_\_ activation energy,
26. Aromatic Amino-Acids are \_\_\_\_\_ Phenylalanine, Tyrosine and Tryptophan



27. carbohydrates and lipids forms \_\_\_\_\_ glycosphingolipids
28. Polyunsaturated Fatty Acids (PUFAs) contains \_\_\_\_ no of double bonds ( More than one)
29. Alpha shows the which structure of proteins Secondary structure
30. The conjugated double bonds of purine and pyrimidine derivatives absorb ultraviolet light.
31. The formula of slope is  $Slope = \frac{K m}{V_{max} \cdot app}$
32. At pH 12 predominant glycine is \_\_\_\_\_  $H_2N-CH_2-COO^-$
33. Simple triglycerides Fatty acids connected to glycerol are of the same type • e.g., tripalmitin.
34. Platelet aggregation is the culminating step in the cardiovascular diseases due to atherosclerosis
35. the aldehyde reduction product of glucose is the molecule sorbitol
36. glycerol is converted to glycerol 3 phosphate \_\_\_\_\_ by enzyme dehydrogenase
37. In DNA cytosine is 18% then adenine would be \_\_\_\_\_ 32%
38. Which of the following is levulose \_\_\_\_\_ Fructose
39. One letter symbol of glycine is \_\_\_\_\_ G
40. Most proteins can be denatured by heat, which has complex effects on the weak interactions in a protein hydrogen bonds
41. Pyrimidine include in both DNA and RNA \_\_\_\_\_: • Cytosine (C)
42. Both DNA and RNA contain the same \_\_\_\_\_ Purine bases
43. Table sugar is ... Sucrose
44. PI of glycine is ... 5.97
45. PL of alanine is ..... 5.7
46. Glutamate PI is .... 3.22
47. PL of histidine ..... 7.59
48. Histidine has 3 Disassociate Hydrogen
49. 1 torr = 1mmHg
50. carbamates account for about 15% of the CO<sub>2</sub> in venous blood
51. one gram of Glucono delta-lactone yields roughly the same amount of metabolic energy as one gram of sugar



52. Amino sugar is formed by removal of OH at C-2 of the parent monosachharide is replaced with an amino group.
53. Pk3 of histidine is 9.2
54. Sunflower shaped Osazone Maltose
55. The symbol of tyrosine is Y
56. P50 is approximately 26.6mm Hg for hemoglobin
57. at 5' of DNA there is a free Phosphate group
58. Triple bond is present between Guanine and Cytosine
59. DNA sugars are linked to ( N-1 of a pyrimidine or N-9 of a purine )
60. Major part of chylomicrons triacylglycerol 90%
61. Hb has a hybrid sigmoid, binding curve for O<sub>2</sub>
62. Phosphatidylcholine is formed from ( phosphatidic acid+Choline)
63. Blood group Antigen present in all common blood types H
64. The Lineweaver-Burk plot is diagnostic for competitive inhibition
65. enzymes catalyze condensation reactions joining two molecules by forming • C-O, C-S, C-N and C-C bonds Ligase
66. Trans form of meliec acid is : fumaric acid
67. Fruit suger is : fructose
68. Saminal fluid is rich in : lactose
69. Simplest amino acid : glysine
70. In glycine R group is : H
71. Enthalpy denoted by: H
72. Negative charge on DNA is due to phosphate group
73. Iodine number of olive oil is: 79-88
74. VLDL composed of: TAG
75. Saturated lipids increase: LDL
76. PKA of glysine: 2.34