

Practice Quiz Questions : Dr. Balliett : No DNA : "I need my 50k daily word quota."

1. 20
2. L-alpha amino acids
3. NH₂
4. When the pH is less than pK₁
5. One with a carbon or hydrogen R group
6. Zwitterion
7. It loses a hydrogen to the environment, thus now has 2 opposite charged ions
8. When both the side chain and the amino group lose a hydrogen
9. Hydrophobic, stay
10. Glycine (Gly), Alanine (Ala), Valine (Val), Leucine (Leu), and Isoleucine (Ile) "G.A.L.V.I."
11. OH
12. Serine (Ser), and Threonine (Thr)
13. Tyrosine (Tyr)
14. Cysteine (Cys), and Methionine (Met)
15. It is two cysteine molecules combined
16. It is electrophilic thus helpful for antioxidants
17. Asparagine (Asn)
18. Glutamine (Gln)
19. Basic
20. Phenylalanine (Phe), Tyrosine (Tyr), and Tryptophan (Trp)
21. HAL, Histidine (His), Arginine (Arg), and Lysine (Lys)
22. "PVT TIM HALL" Phe, Val, Trp, Thr, Ile, Met, His, Arg, Lys, Leu
23. Peptide bonds
24. Peptide bonds
25. Covalently
26. From the amino terminus to the carboxy terminus end
27. Hydrogen
28. Proline
29. Alpha Helix, Beta Pleated sheets, and Beta Bends
30. Right handed
31. Proline
32. 3.6, amino acid residues
33. Hydrogen bonds and Van der Waals forces
34. On the turn
35. Alpha carbons and R groups alternate above and below the plane of the molecule
36. Parallel or antiparallel
37. Hydrogen bonds
38. Proline and glycine, they are small molecules perfect for a loop
39. Half, alpha helix

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40. Beta bends
41. Domains
42. Disulfide, hydrogen, salt bridges, and hydrophobic interactions
43. Super secondary
44. A Quaternary Structure
45. Dimeric protein, trimeric protein, and tetrameric protein
46. Breaking of collagen fibers
47. Dialysis (bag), ultrafiltration, and gel filtration
48. Ion-exchange chromatography, Affinity chromatography
49. SDS-PAGE
50. Edman degradation
51. Hydrolysis and separation by HPLC (Ion exchange)
52. 60g
53. Albumin, egg whites
54. Lysine and tryptophan
55. Methionine
56. Kwashiorkor
57. Marasmus
58. A lack of albumin, that has high osmotic pressure, thus water escapes the vessels into the belly.
59. Phenylalanine hydroxylase
60. Alkaptonuria
61. Aspartame
62. Lack of skin color, no melanin due to lack of tyrosine intermediate
63. Thyroxin
64. Tyrosinase
65. Catecholamine
66. L-DOPA, Dopamine, Norepinephrine
67. Serotonin, Melatonin, and Niacin
68. Vitamin B6
69. Meat (Turkey), eggs, and milk
70. 5 Hydroxytryptamine (5HT)
71. Vasoconstrictor and gastric motility
72. Vegetative: feeding, sex, temperature control
73. Worry, irritability
74. Panic attacks
75. L-Homocysteine
76. Magnesium, Methionine, and ATP
77. Histamine, causes vasodilation
78. Hypothalamus: Release of anterior pituitary hormones, control arousal, and control food intake
79. Weight gain due to a lack of H1 stimulation

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80. Parietal Cells: Excitation releases stomach acids
81. The Liver
82. Proteins and amino acids
83. Arginine, Ornithine, Citrulline, Arginosuccinate, and Arginine
84. L-Lysine, and Glycine (every 3rd residue)
85. L-Leucine, a ketogenic amino acid
86. Glycine (no L!)
87. L-Glutamic Acid / Glutamate
88. Glutamate and glutamate decarboxylase, Inhibitory transmitter
89. Pyruvate, glutamate, and SGPT
90. L-Glutamine (for amines)
91. Hydroxy proline, hydroxylysine, and glycine
92. Insulin
93. Brain and liver
94. Smooth muscle hypotensive agent (swelling and leaking), response to tissue damage.
95. Disulfide bond formation
96. Gut, brain, and WBC's
97. Exercise, Sex, touch, and laughter
98. Adrenaline
99. To lower the activation energy
100. Proteins, L-isomers, not used up in reactions
101. Effect equilibrium constants
102. Temperature, pH, and Concentration
103. Substrate, $\frac{1}{2} V_{max}$
104. Michaelis-Menten Kinetics, poorly predictive
105. Lineweaver-Burke Plot, large error effects
106. Eadie-Hofstee Plot, 1 reciprocal and a $-k_m$ slope
107. The catalytic site, substrate, reversibly
108. Non-catalytic site, no resemblance, reversible
109. Increase K_m , no effect on V_{max}
110. No effect on K_m , decrease V_{max}
111. Irreversible Inhibitors, alter amino acid residues
112. Substrate concentration on reactions catalyzed by allosteric enzymes
113. Breakdown, releasing
114. Build up, need
115. Donates a H, accepts a Hydrogen
116. Coenzymes and B3
117. Vitamin B1
118. Transferase
119. High energy phosphate bond, ATP/ADP

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- 120. Phosphatases, no energy association
- 121. No energy, water/aminoacids/carbondioxide, Zinc
- 122. Biotin and ATP
- 123. Thiamin, No energy
- 124. Proteins