

ch2

Student: _____

1. Anything that occupies space and has mass is called
 - A. Volume
 - B. Matter
 - C. Weight
 - D. Atomic
2. Which of the following is NOT an example of matter?
 - A. A brick
 - B. Water
 - C. Air
 - D. Heat
3. The simplest type of matter with unique physical and chemical properties is a(an)
 - A. Molecule
 - B. Proton
 - C. Element
 - D. Compound
4. Which element is found in the greatest abundance by weight in a human body?
 - A. Hydrogen
 - B. Carbon
 - C. Oxygen
 - D. Calcium
5. Which of the following particles is NOT found in the nucleus of an atom?
 - A. Electron
 - B. Proton
 - C. Neutron
 - D. All of the choices are found in the nucleus of an atom
6. Which subatomic particle is positively charged?
 - A. Proton
 - B. Neutron
 - C. Electron
 - D. Protons and electrons
7. By definition, the atomic number is equal to the number of _____ an atom has.
 - A. Neutrons
 - B. Electrons
 - C. Protons
 - D. Positrons

8. Since an atom is electrically neutral, which two subatomic particles are equal in number?

- A. Electrons and neutrons
- B. Electrons and protons
- C. Neutrons and protons

9. Which of the following is NOT true about isotopes?

- A. Isotopes are two or more forms of the same element
- B. Isotopes have different atomic numbers
- C. Isotopes have different mass numbers
- D. Some isotopes are radioactive

10. An atom that has more protons than electrons is called a(an)

- A. Cation
- B. Anion
- C. Isotope
- D. Molecule

11. A particle formed from the gain of electrons is called a(an)

- A. Cation
- B. Anion
- C. Isotope
- D. Molecule

12. An ionic bond is formed by the

- A. Sharing of electrons between two atoms
- B. Loss of electrons from two atoms
- C. Attraction between cations and anions
- D. Gain of electrons from two atoms

13. The symbol Mg^{2+} means that a magnesium atom has

- A. Gained two protons
- B. Gained two electrons
- C. Lost two protons
- D. Lost two electrons

14. Which ion is NOT correctly matched to its function in the body?

- A. Calcium - bones, teeth and muscle contraction
- B. Sodium - membrane potentials and water balance
- C. Iron - red blood cell formation
- D. Chloride - acid-base balance

15. In a covalent bond, electrons are

- A. Transferred between two atoms
- B. Lost from two atoms
- C. Shared between two atoms
- D. Gained from two atoms

16. When electron pairs are shared equally between two atoms, what type of bond is formed?
- A. Nonpolar covalent bond
 - B. Ionic bond
 - C. Polar covalent bond
 - D. Hydrogen bond
17. When electron pairs are unequally shared between two atoms, what type of bond is formed?
- A. Nonpolar covalent bond
 - B. Ionic bond
 - C. Polar covalent bond
 - D. Hydrogen bond
18. The attraction between a positive hydrogen "end" of a polar molecule and the negative "end" of another polar molecule is called a(an)
- A. Ionic bond
 - B. Hydrogen bond
 - C. Nonpolar covalent bond
 - D. Polar covalent bond
19. What type of particle is formed from covalent bonds between two or more atoms?
- A. A molecule
 - B. A compound
 - C. An ion
 - D. A mixture
20. Two or more different atoms that are chemically combined form a(an)
- A. Molecule
 - B. Compound
 - C. Ion
 - D. Mixture
21. Which of the following is true of dissociation?
- A. Molecules dissociate in water
 - B. Molecules come apart when dissolved in water
 - C. Ionic compounds come apart when dissolved in water
 - D. Water molecules can not surround ions in solution
22. Compounds that have the ability to conduct an electric current in solution are called
- A. Electrolytes
 - B. Nonelectrolytes
 - C. Isotopes
 - D. Molecules

23. What type of reaction occurs when water is added to break down a large reactant into smaller products?
- A. Dehydration
 - B. Synthesis
 - C. Hydrolysis
 - D. Reversible
24. What type of reaction occurs when water is removed to add reactants together?
- A. Dehydration
 - B. Decomposition
 - C. Hydrolysis
 - D. Reversible
25. All the reactions in the body are collectively called
- A. Dehydration
 - B. Metabolism
 - C. Hydrolysis
 - D. Synthesis
26. The type of energy found in chemical bonds is
- A. Kinetic energy
 - B. Mechanical energy
 - C. Potential energy
 - D. Electrical energy
27. The energy molecule used to transfer energy in cells is called
- A. Glucose
 - B. ATP
 - C. CO₂
 - D. ADP
28. Which of the following will NOT affect the rate of a chemical reaction?
- A. Type of reactants
 - B. Concentration of reactants
 - C. Temperature
 - D. Use of a catalyst
 - E. All of the choices will affect the rate of a chemical reaction
29. Which of the following will decrease the rate of a chemical reaction?
- A. Increasing the concentration of reactants
 - B. Using a catalyst
 - C. Decreasing the temperature
 - D. Changing to a more reactive reactant

30. What will increase the rate of a reaction without being permanently changed itself?

- A. A catalyst
- B. An isotope
- C. An acid
- D. A base

31. A substance that will accept a proton is a(an)

- A. Acid
- B. Base
- C. Catalyst
- D. Salt

32. What is the range for an acid on the pH scale?

- A. 0 to 4
- B. Less than 7.0
- C. Greater than 7.0
- D. 10 to 14

33. As the hydrogen ion concentration increases, the pH

- A. Increases
- B. Decreases
- C. Remains the same

34. What is the normal pH range for human blood?

- A. 7.0
- B. 4.0 to 7.0
- C. 7.35 to 7.45
- D. 6.8 to 8.0

35. A chemical that resists change in pH is called a(an)

- A. Acid
- B. Base
- C. Salt
- D. Buffer

36. What is the function of oxygen in living cells?

- A. To take energy from the food we eat to make ATP
- B. To maintain the pH of the blood
- C. A medium for chemical reactions
- D. To transport nutrients in the blood

37. Which of the following is NOT an inorganic molecule?

- A. Carbon dioxide
- B. Water
- C. Oxygen
- D. Glucose

38. Which of the following is NOT a function of water in the body?
- A. Transport of dissolved substances
 - B. Maintaining body temperature
 - C. Protection by lubricating body parts
 - D. Providing energy for cell reactions
39. What are the building blocks of carbohydrates?
- A. Disaccharides
 - B. Glycerol and fatty acids
 - C. Amino acids
 - D. Monosaccharides
40. Which of the following is NOT a polysaccharide of glucose?
- A. Triglyceride
 - B. Glycogen
 - C. Cellulose
 - D. Starch
41. Which of the following is NOT a function of carbohydrates in the body?
- A. Energy
 - B. Structure
 - C. Bulk
 - D. Regulation
42. The most common of the fats in the body are
- A. Steroids
 - B. Diglycerides
 - C. Triglycerides
 - D. Monoglycerides
43. The building blocks of fats are
- A. Monoglycerides
 - B. Monosaccharides
 - C. Cholesterol and fatty acids
 - D. Glycerol and fatty acids
44. Which type of fats do NOT contribute to the development of cardiovascular disease?
- A. Polyunsaturated fats
 - B. Monounsaturated fats
 - C. Saturated fats
 - D. Diunsaturated fats

45. Which lipid group is NOT correctly matched to its function?
- A. Eicosanoids - regulation
 - B. Fats - insulation
 - C. Phospholipids - stored energy
 - D. Steroids - bile salts for fat digestion
46. Which of the following is NOT true of phospholipids?
- A. Make up cell membranes
 - B. Have two fatty acid chains
 - C. Have a polar end made of fatty acids
 - D. Have a nonpolar, hydrophobic end
47. Which of the following are NOT eicosanoids?
- A. Leukotrienes
 - B. Cholesterol
 - C. Prostaglandins
 - D. Thromboxanes
48. The building blocks of proteins are
- A. Nucleic acids
 - B. Amino acids
 - C. Fatty acids
 - D. Linolenic acids
49. The sequence of amino acids joined by peptide bonds is the _____ structure of a protein.
- A. Primary
 - B. Secondary
 - C. Tertiary
 - D. Quaternary
50. The folding or bending of the polypeptide chain into an alpha-helix or beta-pleated sheet held by hydrogen bonds is the _____ structure of a protein.
- A. Primary
 - B. Secondary
 - C. Tertiary
 - D. Quaternary
51. The folding of the folds of a polypeptide into distinct three-dimensional structures called domains is the _____ structure of a protein.
- A. Primary
 - B. Secondary
 - C. Tertiary
 - D. Quaternary

52. Two or more proteins that join to form a functional unit is the _____ structure of a protein.
- A. Primary
 - B. Secondary
 - C. Tertiary
 - D. Quaternary
53. Which of the following functions of proteins is NOT correctly matched to the example?
- A. Structure - collagen as a framework
 - B. Protection - transport of substances in the blood
 - C. Regulation - enzymes controlling the rate of reactions
 - D. Energy - produce ATP
54. Which of the following is NOT a function of proteins in the body?
- A. Protection
 - B. Contraction
 - C. Heredity
 - D. Regulation
55. The destruction of the three-dimensional shape of a protein by heat or pH changes is called
- A. Denaturation
 - B. Activation
 - C. Dehydration
 - D. Hydrolysis
56. A protein catalyst that increases the rate of a chemical reaction without being permanently changed is a(an)
- A. Isotope
 - B. Domain
 - C. Enzyme
 - D. Denaturation
57. Which of the following is NOT true of enzymes?
- A. Lower activation energy for a reaction
 - B. Can be used for many reactants
 - C. Must fit like a lock and key to a reactant
 - D. Can be used over and over again
58. What are the building blocks of nuclei acids?
- A. Amino acids
 - B. Nucleotides
 - C. Fatty acids
 - D. Monosaccharides

59. Which of the following is NOT part of a nucleotide?

- A. Sugar
- B. Nitrogenous organic base
- C. Amino acid
- D. Phosphate

60. Which of the following is NOT true about DNA?

- A. Has the sugar deoxyribose
- B. Is a double helix
- C. Has the bases adenine, guanine, uracil and thymine
- D. Two bases join to form the "rungs" of the double helix

61. The sequence of organic bases in DNA that codes for a protein is called a(an)

- A. Gene
- B. Enzyme
- C. Polypeptide
- D. Dipeptide

62. Which of the following is NOT true about RNA?

- A. A single strand
- B. Had three different forms
- C. Has uracil instead of thymine
- D. Is the hereditary molecule

63. The mass of an object changes with location, while weight stays constant.

True False

64. The atom is the smallest particle of an element that has all the properties of that element.

True False

65. The mass number of an isotope is equal to the protons plus neutrons.

True False

66. Nonpolar covalent bonds between atoms can create a polar molecule.

True False

67. A hydrogen bond is a chemical bond between atoms.

True False

68. Hydrogen bonds are important in creating the three-dimensional shapes of large molecules.

True False

69. All molecules are compounds.

True False

70. In equilibrium of reversible reactions, the amounts of reactants and products are equal.

True False

71. Within limits, the more concentrated the reactants, the slower a reaction will proceed.

True False

72. An increase in temperature will increase the rate of a chemical reaction.

True False

73. Alkalosis occurs when the pH of the blood drops below 7.35.

True False

74. Most of the chemical reactions in the body would not take place if water were not present.

True False

75. Lipids have important roles in regulating the rates of chemical reactions in the body.

True False

76. There are 20 different amino acids.

True False

77. Polar sections of a polypeptide chain tend to face outward toward water in helping to create the tertiary structure of a protein.

True False

78. The minimum amount of energy to start a chemical reaction is the activation energy.

True False

79. Enzymes will raise the activation energy making it easier for a reaction to occur.

True False

80. In DNA, the base adenine is the complement of thymine.

True False

ch2 Key

1. Anything that occupies space and has mass is called

- A. Volume
- B.** Matter
- C. Weight
- D. Atomic

Tate - Chapter 02 #1

2. Which of the following is NOT an example of matter?

- A. A brick
- B. Water
- C. Air
- D.** Heat

Tate - Chapter 02 #2

3. The simplest type of matter with unique physical and chemical properties is a(an)

- A. Molecule
- B. Proton
- C.** Element
- D. Compound

Tate - Chapter 02 #3

4. Which element is found in the greatest abundance by weight in a human body?

- A. Hydrogen
- B. Carbon
- C.** Oxygen
- D. Calcium

Tate - Chapter 02 #4

5. Which of the following particles is NOT found in the nucleus of an atom?

- A.** Electron
- B. Proton
- C. Neutron
- D. All of the choices are found in the nucleus of an atom

Tate - Chapter 02 #5

6. Which subatomic particle is positively charged?

- A. Proton
- B. Neutron
- C. Electron
- D. Protons and electrons

Tate - Chapter 02 #6

7. By definition, the atomic number is equal to the number of _____ an atom has.

- A. Neutrons
- B. Electrons
- C. Protons
- D. Positrons

Tate - Chapter 02 #7

8. Since an atom is electrically neutral, which two subatomic particles are equal in number?

- A. Electrons and neutrons
- B. Electrons and protons
- C. Neutrons and protons

Tate - Chapter 02 #8

9. Which of the following is NOT true about isotopes?

- A. Isotopes are two or more forms of the same element
- B. Isotopes have different atomic numbers
- C. Isotopes have different mass numbers
- D. Some isotopes are radioactive

Tate - Chapter 02 #9

10. An atom that has more protons than electrons is called a(an)

- A. Cation
- B. Anion
- C. Isotope
- D. Molecule

Tate - Chapter 02 #10

11. A particle formed from the gain of electrons is called a(an)

- A. Cation
- B. Anion
- C. Isotope
- D. Molecule

Tate - Chapter 02 #11

12. An ionic bond is formed by the
- A. Sharing of electrons between two atoms
 - B. Loss of electrons from two atoms
 - C.** Attraction between cations and anions
 - D. Gain of electrons from two atoms

Tate - Chapter 02 #12

13. The symbol Mg^{2+} means that a magnesium atom has
- A. Gained two protons
 - B. Gained two electrons
 - C. Lost two protons
 - D.** Lost two electrons

Tate - Chapter 02 #13

14. Which ion is NOT correctly matched to its function in the body?
- A. Calcium - bones, teeth and muscle contraction
 - B. Sodium - membrane potentials and water balance
 - C. Iron - red blood cell formation
 - D.** Chloride - acid-base balance

Tate - Chapter 02 #14

15. In a covalent bond, electrons are
- A. Transferred between two atoms
 - B. Lost from two atoms
 - C.** Shared between two atoms
 - D. Gained from two atoms

Tate - Chapter 02 #15

16. When electron pairs are shared equally between two atoms, what type of bond is formed?
- A.** Nonpolar covalent bond
 - B. Ionic bond
 - C. Polar covalent bond
 - D. Hydrogen bond

Tate - Chapter 02 #16

17. When electron pairs are unequally shared between two atoms, what type of bond is formed?
- A. Nonpolar covalent bond
 - B. Ionic bond
 - C.** Polar covalent bond
 - D. Hydrogen bond

Tate - Chapter 02 #17

18. The attraction between a positive hydrogen "end" of a polar molecule and the negative "end" of another polar molecule is called a(an)
- A. Ionic bond
 - B. Hydrogen bond**
 - C. Nonpolar covalent bond
 - D. Polar covalent bond

Tate - Chapter 02 #18

19. What type of particle is formed from covalent bonds between two or more atoms?
- A. A molecule**
 - B. A compound
 - C. An ion
 - D. A mixture

Tate - Chapter 02 #19

20. Two or more different atoms that are chemically combined form a(an)
- A. Molecule
 - B. Compound**
 - C. Ion
 - D. Mixture

Tate - Chapter 02 #20

21. Which of the following is true of dissociation?
- A. Molecules dissociate in water
 - B. Molecules come apart when dissolved in water
 - C. Ionic compounds come apart when dissolved in water**
 - D. Water molecules can not surround ions in solution

Tate - Chapter 02 #21

22. Compounds that have the ability to conduct an electric current in solution are called
- A. Electrolytes**
 - B. Nonelectrolytes
 - C. Isotopes
 - D. Molecules

Tate - Chapter 02 #22

23. What type of reaction occurs when water is added to break down a large reactant into smaller products?
- A. Dehydration
 - B. Synthesis
 - C. Hydrolysis**
 - D. Reversible

Tate - Chapter 02 #23

24. What type of reaction occurs when water is removed to add reactants together?

- A. Dehydration
- B. Decomposition
- C. Hydrolysis
- D. Reversible

Tate - Chapter 02 #24

25. All the reactions in the body are collectively called

- A. Dehydration
- B. Metabolism
- C. Hydrolysis
- D. Synthesis

Tate - Chapter 02 #25

26. The type of energy found in chemical bonds is

- A. Kinetic energy
- B. Mechanical energy
- C. Potential energy
- D. Electrical energy

Tate - Chapter 02 #26

27. The energy molecule used to transfer energy in cells is called

- A. Glucose
- B. ATP
- C. CO₂
- D. ADP

Tate - Chapter 02 #27

28. Which of the following will NOT affect the rate of a chemical reaction?

- A. Type of reactants
- B. Concentration of reactants
- C. Temperature
- D. Use of a catalyst
- E. All of the choices will affect the rate of a chemical reaction

Tate - Chapter 02 #28

29. Which of the following will decrease the rate of a chemical reaction?

- A. Increasing the concentration of reactants
- B. Using a catalyst
- C. Decreasing the temperature
- D. Changing to a more reactive reactant

Tate - Chapter 02 #29

30. What will increase the rate of a reaction without being permanently changed itself?

- A. A catalyst
- B. An isotope
- C. An acid
- D. A base

Tate - Chapter 02 #30

31. A substance that will accept a proton is a(an)

- A. Acid
- B. Base
- C. Catalyst
- D. Salt

Tate - Chapter 02 #31

32. What is the range for an acid on the pH scale?

- A. 0 to 4
- B. Less than 7.0
- C. Greater than 7.0
- D. 10 to 14

Tate - Chapter 02 #32

33. As the hydrogen ion concentration increases, the pH

- A. Increases
- B. Decreases
- C. Remains the same

Tate - Chapter 02 #33

34. What is the normal pH range for human blood?

- A. 7.0
- B. 4.0 to 7.0
- C. 7.35 to 7.45
- D. 6.8 to 8.0

Tate - Chapter 02 #34

35. A chemical that resists change in pH is called a(an)

- A. Acid
- B. Base
- C. Salt
- D. Buffer

Tate - Chapter 02 #35

36. What is the function of oxygen in living cells?

- A. To take energy from the food we eat to make ATP
- B. To maintain the pH of the blood
- C. A medium for chemical reactions
- D. To transport nutrients in the blood

Tate - Chapter 02 #36

37. Which of the following is NOT an inorganic molecule?

- A. Carbon dioxide
- B. Water
- C. Oxygen
- D. Glucose

Tate - Chapter 02 #37

38. Which of the following is NOT a function of water in the body?

- A. Transport of dissolved substances
- B. Maintaining body temperature
- C. Protection by lubricating body parts
- D. Providing energy for cell reactions

Tate - Chapter 02 #38

39. What are the building blocks of carbohydrates?

- A. Disaccharides
- B. Glycerol and fatty acids
- C. Amino acids
- D. Monosaccharides

Tate - Chapter 02 #39

40. Which of the following is NOT a polysaccharide of glucose?

- A. Triglyceride
- B. Glycogen
- C. Cellulose
- D. Starch

Tate - Chapter 02 #40

41. Which of the following is NOT a function of carbohydrates in the body?

- A. Energy
- B. Structure
- C. Bulk
- D. Regulation

Tate - Chapter 02 #41

42. The most common of the fats in the body are

- A. Steroids
- B. Diglycerides
- C. Triglycerides**
- D. Monoglycerides

Tate - Chapter 02 #42

43. The building blocks of fats are

- A. Monoglycerides
- B. Monosaccharides
- C. Cholesterol and fatty acids
- D. Glycerol and fatty acids**

Tate - Chapter 02 #43

44. Which type of fats do NOT contribute to the development of cardiovascular disease?

- A. Polyunsaturated fats**
- B. Monounsaturated fats
- C. Saturated fats
- D. Diunsaturated fats

Tate - Chapter 02 #44

45. Which lipid group is NOT correctly matched to its function?

- A. Eicosanoids - regulation
- B. Fats - insulation
- C. Phospholipids - stored energy**
- D. Steroids - bile salts for fat digestion

Tate - Chapter 02 #45

46. Which of the following is NOT true of phospholipids?

- A. Make up cell membranes
- B. Have two fatty acid chains
- C. Have a polar end made of fatty acids**
- D. Have a nonpolar, hydrophobic end

Tate - Chapter 02 #46

47. Which of the following are NOT eicosanoids?

- A. Leukotrienes
- B. Cholesterol**
- C. Prostaglandins
- D. Thromboxanes

Tate - Chapter 02 #47

48. The building blocks of proteins are

- A. Nucleic acids
- B. Amino acids**
- C. Fatty acids
- D. Linolenic acids

Tate - Chapter 02 #48

49. The sequence of amino acids joined by peptide bonds is the _____ structure of a protein.

- A. Primary**
- B. Secondary
- C. Tertiary
- D. Quaternary

Tate - Chapter 02 #49

50. The folding or bending of the polypeptide chain into an alpha-helix or beta-pleated sheet held by hydrogen bonds is the _____ structure of a protein.

- A. Primary
- B. Secondary**
- C. Tertiary
- D. Quaternary

Tate - Chapter 02 #50

51. The folding of the folds of a polypeptide into distinct three-dimensional structures called domains is the _____ structure of a protein.

- A. Primary
- B. Secondary
- C. Tertiary**
- D. Quaternary

Tate - Chapter 02 #51

52. Two or more proteins that join to form a functional unit is the _____ structure of a protein.

- A. Primary
- B. Secondary
- C. Tertiary
- D. Quaternary**

Tate - Chapter 02 #52

53. Which of the following functions of proteins is NOT correctly matched to the example?

- A. Structure - collagen as a framework
- B. Protection - transport of substances in the blood**
- C. Regulation - enzymes controlling the rate of reactions
- D. Energy - produce ATP

Tate - Chapter 02 #53

54. Which of the following is NOT a function of proteins in the body?

- A. Protection
- B. Contraction
- C. Heredity**
- D. Regulation

Tate - Chapter 02 #54

55. The destruction of the three-dimensional shape of a protein by heat or pH changes is called

- A. Denaturation**
- B. Activation
- C. Dehydration
- D. Hydrolysis

Tate - Chapter 02 #55

56. A protein catalyst that increases the rate of a chemical reaction without being permanently changed is a(an)

- A. Isotope
- B. Domain
- C. Enzyme**
- D. Denaturation

Tate - Chapter 02 #56

57. Which of the following is NOT true of enzymes?

- A. Lower activation energy for a reaction
- B. Can be used for many reactants**
- C. Must fit like a lock and key to a reactant
- D. Can be used over and over again

Tate - Chapter 02 #57

58. What are the building blocks of nucleic acids?

- A. Amino acids
- B. Nucleotides**
- C. Fatty acids
- D. Monosaccharides

Tate - Chapter 02 #58

59. Which of the following is NOT part of a nucleotide?

- A. Sugar
- B. Nitrogenous organic base
- C. Amino acid**
- D. Phosphate

Tate - Chapter 02 #59

60. Which of the following is NOT true about DNA?
- A. Has the sugar deoxyribose
 - B. Is a double helix
 - C.** Has the bases adenine, guanine, uracil and thymine
 - D. Two bases join to form the "rungs" of the double helix

Tate - Chapter 02 #60

61. The sequence of organic bases in DNA that codes for a protein is called a(an)
- A.** Gene
 - B. Enzyme
 - C. Polypeptide
 - D. Dipeptide

Tate - Chapter 02 #61

62. Which of the following is NOT true about RNA?
- A. A single strand
 - B. Had three different forms
 - C. Has uracil instead of thymine
 - D.** Is the hereditary molecule

Tate - Chapter 02 #62

63. The mass of an object changes with location, while weight stays constant.

FALSE

Tate - Chapter 02 #63

64. The atom is the smallest particle of an element that has all the properties of that element.

TRUE

Tate - Chapter 02 #64

65. The mass number of an isotope is equal to the protons plus neutrons.

TRUE

Tate - Chapter 02 #65

66. Nonpolar covalent bonds between atoms can create a polar molecule.

FALSE

Tate - Chapter 02 #66

67. A hydrogen bond is a chemical bond between atoms.

FALSE

Tate - Chapter 02 #67

68. Hydrogen bonds are important in creating the three-dimensional shapes of large molecules.

TRUE

Tate - Chapter 02 #68

69. All molecules are compounds.

FALSE

Tate - Chapter 02 #69

70. In equilibrium of reversible reactions, the amounts of reactants and products are equal.

FALSE

Tate - Chapter 02 #70

71. Within limits, the more concentrated the reactants, the slower a reaction will proceed.

FALSE

Tate - Chapter 02 #71

72. An increase in temperature will increase the rate of a chemical reaction.

TRUE

Tate - Chapter 02 #72

73. Alkalosis occurs when the pH of the blood drops below 7.35.

FALSE

Tate - Chapter 02 #73

74. Most of the chemical reactions in the body would not take place if water were not present.

TRUE

Tate - Chapter 02 #74

75. Lipids have important roles in regulating the rates of chemical reactions in the body.

FALSE

Tate - Chapter 02 #75

76. There are 20 different amino acids.

TRUE

Tate - Chapter 02 #76

77. Polar sections of a polypeptide chain tend to face outward toward water in helping to create the tertiary structure of a protein.

TRUE

Tate - Chapter 02 #77

78. The minimum amount of energy to start a chemical reaction is the activation energy.

TRUE

Tate - Chapter 02 #78

79. Enzymes will raise the activation energy making it easier for a reaction to occur.

FALSE

Tate - Chapter 02 #79

80. In DNA, the base adenine is the complement of thymine.

TRUE

Tate - Chapter 02 #80

ch2 Summary

<u>Category</u>	<u># of Questions</u>
Tate - Chapter 02	80