## Multiple Choice Questions

1. Water makes up ___ of the total body weight of an average adult.
A. $50-60 \%$
B. $55-65 \%$
C. $60-70 \%$
D. $65-75 \%$

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
2. Most of the water found in the body is in the
A. blood.
B. intracellular fluid compartment.
C. extracellular fluid compartment.
D. blood and extracellular fluid compartment.

True / False Questions
3. Neutrons are uncharged particles found in the nucleus of an atom.

TRUE

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body
4. An element with 5 protons, 5 neutrons, and 5 electrons would have an atomic number of 15.

FALSE

Bloom's Level: 2. Understand
Section: 2.01
Topic: Chemistry

## Multiple Choice Questions

5. The atomic nucleus does not contain $\qquad$ , which are negatively charged subatomic particles.
A. protons
B. electrons
C. neutrons

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
6. An element with 11 neutrons, 11 protons, and 11 electrons would have an atomic mass of
A. 11
B. 33
C. 22
D. cannot be determined

[^0]Chapter 02 - Chemical Composition of the Body
7. The $\qquad$ is the physical space which an electron occupies in an atom. A. nucleus
B. orbital
C. energy level
D. Both orbital and energy level are correct.

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
8. The $\qquad$ electrons are the outermost electrons of an atom.
A. kernel
B. valence
C. atomic
D. anion

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
9. Isotopes have the same $\qquad$ number, but a different $\qquad$ number.
A. mass, atomic
B. neutron, mass
C. atomic, mass
D. atomic, proton

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body
10. Which of the following is NOT true of isotopes of a given atom?
A. have the same number of neutrons
B. have the same number of protons
C. have different atomic masses
D. All of these choices are true.

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry

## True / False Questions

11. The term "chemical element" refers to the most common isotope of that element. FALSE

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry

## Multiple Choice Questions

12. Which of the following subatomic particles have negligible mass?
A. electrons
B. neutrons
C. protons
D. Both neutrons and protons.

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry

True / False Questions

Chapter 02 - Chemical Composition of the Body
13. Molecules with polar covalent bonds are hydrophobic. FALSE

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
14. Negatively charged ions will migrate toward the anode in an electrical field. TRUE

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
15. Hydrogen bonds form between the partially charged atoms of two polar molecules, such as the slightly negatively charged hydrogen atom of one water molecule and the slightly positively charged oxygen atom of another.

## FALSE

Bloom's Level: 2. Understand
Section: 2.01
Topic: Chemistry
16. Atoms sharing a pair of electrons form covalent bonds.

## TRUE

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry

## Multiple Choice Questions

17. When an atom loses one or more electrons, it
A. becomes positively charged.
B. becomes negatively charged.
C. is called an anion.
D. has no change in its charge.

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
18. When an atom gains one or more electrons, it
A. becomes positively charged.
B. has no change in its charge.
C. is called an anion.
D. is called a cation.

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body
19. An atom with 5 protons, 5 neutrons, and 6 electrons would have a net charge of A. -1 .
B. -2 .
C. +1 .
D. +2 .

Bloom's Level: 2. Understand
Section: 2.01
Topic: Chemistry
20. bonds are formed when atoms share electrons unequally.
A. Nonpolar covalent
B. Ionic
C. Polar covalent
D. van der Waals

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
21. Hydration spheres can be formed by compounds which contain $\qquad$ bonds.
A. nonpolar covalent
B. polar covalent
C. ionic
D. either polar covalent or ionic

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body
22. Hydrophobic molecules would contain $\qquad$ bonds.
A. nonpolar covalent
B. polar covalent
C. hydrogen
D. ionic

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
23. Surface tension between water molecules occurs because adjacent water molecules form bonds with each other.
A. nonpolar covalent
B. polar covalent
C. hydrogen
D. ionic

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
24. Bonds that are formed between oxygen and hydrogen atoms within water molecules are called
A. hydrogen bonds.
B. ionic bonds.
C. nonpolar covalent bonds.
D. polar covalent bonds.

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body
25. The type of bond found in sodium chloride is
A. an ionic bond.
B. a polar covalent bond.
C. a hydrogen bond.
D. a nonpolar covalent bond.

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
26. What type of bond is formed between potassium and iodine?
A. polar covalent bond
B. ionic bond
C. nonpolar covalent bond
D. hydrogen bond

Bloom's Level: 2. Understand
Section: 2.01
Topic: Chemistry
27. Which of the following would be most easily broken?
A. a hydrogen bond
B. a nonpolar covalent bond
C. an ionic bond
D. a polar covalent bond

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body
28. The ability of water to be pulled as a column through narrow channels is called A. osmalality.
B. surface tension.
C. neutrality.
D. capillary action.

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry

## True / False Questions

29. The pH of a solution is directly proportional to the hydrogen ion concentration of the solution.

## FALSE

Bloom's Level: 2. Understand
Section: 2.01
Topic: Chemistry
30. Acids release hydrogen ions into solutions.

TRUE

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
31. As the pH of the blood decreases, the amount of hydrogen ions in the blood would decrease.
FALSE

Bloom's Level: 2. Understand
Section: 2.01
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body

## Multiple Choice Questions

32. Water molecules form $\qquad$ ions when they associate with a hydrogen ion.
A. hydroxide
B. bicarbonate
C. hydronium
D. water

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
33. A solution of a pH above 7 is called $\qquad$ .
A. acidic
B. neutral
C. basic

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
34. Bases will $\qquad$ protons in a solution.
A. accept
B. donate
C. ignore
D. repel

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body
35. The primary buffer in the blood is the $\qquad$ buffer.
A. hydronium
B. ammonia
C. phosphate
D. bicarbonate

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
36. The pH of a solution increases as the $\qquad$ ion concentration decreases.
A. hydrogen
B. hydroxide
C. bicarbonate
D. sodium

Bloom's Level: 2. Understand
Section: 2.01
Topic: Chemistry
37. In an acidic solution,
A. the $\mathrm{OH}^{-}$ion concentration is greater than the $\mathrm{H}^{+}$ion concentration.
B. the $\mathrm{OH}^{-}$ion concentration is less than the $\mathrm{H}^{+}$ion concentration.
C. the $\mathrm{H}^{+}$ion concentration is equal to the $\mathrm{OH}^{-}$ion concentration.
D. the $\mathrm{H}^{+}$ion concentration is less than the $\mathrm{OH}^{-}$ion concentration only if the solution is buffered.

Bloom's Level: 2. Understand
Section: 2.01
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body
38. A blood pH of 7.6 is
A. indicative of acidosis.
B. indicative of alkalosis.
C. in the normal physiological range.
D. indicates effective buffering by the bicarbonate/carbonic acid system.

Bloom's Level: 2. Understand
Section: 2.01
Topic: Chemistry
39. Regarding acids and bases,
A. acids will increase the pH of a solution.
B. bases will decrease the pH of a solution.
C. acids will accept hydrogen ions in a solution.
D. bases will accept hydrogen ions in a solution.

Bloom's Level: 2. Understand
Section: 2.01
Topic: Chemistry
40. Ammonia usually
A. acts as a base.
B. acts as an acid.
C. acts as a buffer.
D. ionizes to form a hydroxyl ion.

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry

# Chapter 02 - Chemical Composition of the Body 

## True / False Questions

## 41. Organic acids contain carbonyl groups. FALSE

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry

## Multiple Choice Questions

42. Molecules that contain carbon and hydrogen atoms are
A. ionic.
B. inorganic.
C. organic.
D. carbonic.

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry

True / False Questions
43. Only L-stereoisomers are absorbed by the digestive tract and used to synthesize organic molecules.

## FALSE

Bloom's Level: 2. Understand
Section: 2.01
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body
44. An ionized organic acid is designated with the suffix - ate.

TRUE

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
45. The ionized form of the organic lactic acid is lactate.

## TRUE

Bloom's Level: 2. Understand
Section: 2.01
Topic: Chemistry

## Multiple Choice Questions

46. How many single bonds can a carbon atom form if it is double-bonded to an oxygen atom?
A. 1
B. 2
C. 3
D. 4

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
47. A six-sided organic molecule with alternating double bonds is termed a(n)
A. aromatic compound.
B. ketone.
C. alcohol.
D. organic acid.

Chapter 02 - Chemical Composition of the Body
48. Ketones contain a(n) $\qquad$ group within the carbon chain.
A. hydroxyl
B. carbonyl
C. carboxyl
D. aromatic

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
49. Organic acids will contain
A. a carboxyl group.
B. a carbonyl group.
C. an amino group.
D. a hydroxyl group.

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry
50. An example of an aromatic substance is A. hexane.
B. cyclohexane.
C. fructose.
D. benzene.

Bloom's Level: 1. Remember
Section: 2.01
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body

## True / False Questions

51. Fats and carbohydrates are the primary energy stores in the body. TRUE

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry
52. Glucose, galactose, and fructose can be considered structural isomers of each other. TRUE

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry
53. Fructose is a ketone.

FALSE

Bloom's Level: 2. Understand
Section: 2.02
Topic: Chemistry

## Multiple Choice Questions

54. $\qquad$ are molecules with the same ratio of atoms but different arrangements of atoms.
A. Isotopes
B. Structural isomers
C. Stereoisomers
D. Radioactive isotopes
[^1]Chapter 02 - Chemical Composition of the Body

## True / False Questions

55. Covalent bonds are formed between monosaccharides through dehydration synthesis. TRUE

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry

## Multiple Choice Questions

56. The addition of water with the proper enzymes to a molecule is called A. dehydration synthesis.
B. condensation.
C. hydrolysis.
D. combustion.

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry
57. Which reaction represents a dehydration synthesis reaction?

A
glucose + glucose $<==>$ maltose + water
B
A. Reaction A
B. Reaction B

Bloom's Level: 2. Understand
Section: 2.02
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body

## True / False Questions

58. Carbohydrate molecules have a ratio of twice as many oxygen atoms to carbon atoms. FALSE

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry

## Multiple Choice Questions

59. Sucrose is a disaccharide that is composed of $\qquad$ and $\qquad$ .
A. glucose, glucose
B. glucose, galactose
C. glucose, fructose
D. fructose, galactose

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry
60. Glycogen
A. is more highly branched than plant starch.
B. is a glycoprotein found in the liver.
C. is a glycolipid found in skeletal muscles.
D. is composed of alternating glucose and galactose molecules.

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body
61. An example of a monosaccharide is
A. maltose.
B. sucrose.
C. glucose.
D. glycogen.

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry

## True / False Questions

62. Glucose is stored as a polysaccharide to prevent osmosis of water into the cells. TRUE

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry

## Multiple Choice Questions

63. Which of the following is NOT a disaccharide?
A. fructose
B. sucrose
C. maltose
D. lactose

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body
64. Which of the following polysaccharides cannot be digested by animals themselves?
A. glycogen
B. cellulose
C. starch
D. All of these can be digested by animals themselves.

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry

## True / False Questions

65. Unsaturated fatty acids contain more hydrogen atoms than saturated fatty acids of the same length.

## FALSE

Bloom's Level: 2. Understand
Section: 2.02
Topic: Chemistry
66. Rapid, uncontrolled hydrolysis of body fats can result in ketoacidosis.

TRUE

Bloom's Level: 2. Understand
Section: 2.02
Topic: Chemistry
67. Corticosteroids are a type of lipid commonly found in cell membranes.

FALSE

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body
68. Steroids are derived from cholesterol.

## TRUE

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry

## Multiple Choice Questions

69. In order to maintain proper health, total dietary fat intake should not exceed
$\qquad$ of total dietary energy intake.
A. $10 \%$
B. $20 \%$
C. $30 \%$
D. $40 \%$

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry
70. Which of the following is NOT a type of lipid?
A. prostaglandins
B. triglycerides
C. cholesterol
D. glycogen

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body
71. Lipids containing glycerol would include $\qquad$ and $\qquad$ -.
A. triglycerides, steroids
B. prostaglandins, phospholipids
C. triglycerides, phospholipids
D. steroids, prostaglandins

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry
72. $\qquad$ are liver synthesized derivatives of free fatty acids that can be used as an immediate source of energy by many organs.
A. Glycerols
B. Ketone bodies
C. Steroids
D. Cholesterols

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry
73. $\qquad$ are fatty acids with a cyclic hydrocarbon group.
A. Triglycerides
B. Prostaglandins
C. Proteins
D. Carbohydrates

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body
74. This group of organic compounds acts as surfactants:
A. carbohydrates
B. phospholipids
C. nucleic acids
D. prostaglandins

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry
75. In the formation of triglycerides,
A. hydroxyl and carbonyl groups interact.
B. amino and carbonyl groups interact.
C. carboxyl and amino groups interact.
D. carboxyl and hydroxyl groups interact.

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry
76. Unsaturated fatty acids
A. contain one or more double bonds.
B. are usually liquid at room temperature.
C. contain a maximal number of hydrogen atoms.
D. Both contain one or more double bonds and are usually liquid at room temperature are correct.

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry

## 77. Phospholipids

A. are glycolipids originally isolated from the prostate gland.
B. are major components of the cell membrane.
C. have a polar head and a nonpolar tail.
D. Both are major components of the cell membrane and have a polar head and a nonpolar tail are correct.

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry

## 78. Ketosis

A. occurs when stored fats are rapidly degraded by the body.
B. stimulates an increased blood pH .
C. may lead to alkalosis.
D. occurs as the concentration of ketones in the urine decreases.

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry
79. Which of the following describes a trans-fat?
A. Has carbon-carbon single bonds.
B. Has carbon-carbon double bonds with hydrogens on opposite sides of the bonds. C. Has carbon-carbon double bonds with hydrogens on the same side of the bonds. D. The fatty acids form a bent chain.
80. Which of the following is NOT true of steroids?
A. They have three 6 -carbon rings joined to one 5 -carbon ring.
B. They contain a variety of functional groups.
C. They are derived from palmitate.
D. They differ in the position of the double covalent bonds between the carbon atoms in the rings.

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry
81. Which of the following is NOT a derivative of cholesterol?
A. corticosteroids
B. vitamin $\mathrm{D}_{3}$
C. aldosterone
D. lecithin

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry
82. Phospholipid molecules will form aggregates called $\qquad$ when placed in water.
A. surfactants
B. ketone bodies
C. prostaglandins
D. micelles

Chapter 02 - Chemical Composition of the Body
83. What characteristic of phospholipids allows them to form the double layer seen in cell membranes?
A. They are amphipathic.
B. They are totally nonpolar.
C. They are soluble in water.
D. They are totally hydrophobic.

Bloom's Level: 1. Remember
Section: 2.02
Topic: Chemistry

## True / False Questions

84. All amino acids contain carboxyl and amino groups.

## TRUE

Bloom's Level: 1. Remember
Section: 2.03
Topic: Chemistry
85. The specific sequence of amino acids in a polypeptide is known as the primary protein structure.
TRUE

Bloom's Level: 1. Remember
Section: 2.03
Topic: Chemistry
86. The white part of a cooked egg is due to denatured albumin proteins.

## TRUE

## Multiple Choice Questions

87. $\qquad$ is a structural protein found in tendons and ligaments.
A. Collagen
B. Keratin
C. Myosin
D. Fibrin

Bloom's Level: 1. Remember
Section: 2.03
Topic: Chemistry
88. Peptide bonds are formed by the process of
A. ketosis.
B. hydrolysis.
C. dehydration synthesis.
D. aromatization.

Bloom's Level: 1. Remember
Section: 2.03
Topic: Chemistry
89. The secondary structure of proteins is/are
A. the linear arrangement of amino acids in the molecule.
B. alpha helix coils and beta-pleated sheet folds of a protein strand.
C. due to the interaction between protein subunits.
D. stabilized when a protein is denatured.

Bloom's Level: 1. Remember
Section: 2.03
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body
90. The primary structure of proteins is/are
A. the linear arrangement of amino acids in the molecule.
B. alpha helix coils and beta-pleated sheet folds of a protein strand.
C. due to the interaction between protein subunits.
D. stabilized when a protein is denatured.

Bloom's Level: 1. Remember
Section: 2.03
Topic: Chemistry
91. The subunit of protein is the
A. fatty acid.
B. nucleic acid.
C. amino acid.
D. carboxylic acid.

Bloom's Level: 1. Remember
Section: 2.03
Topic: Chemistry
92. How many different amino acids are known?
A. 10
B. 25
C. 30
D. 20

Bloom's Level: 1. Remember
Section: 2.03
Topic: Chemistry
93. What holds a protein in its tertiary structure?
A. hydrogen bonds between nearby amino acids
B. weak chemical bonds between widely spaced amino acids
C. disulfide bonds between sulfur groups on cysteines
D. Both weak chemical bonds between widely spaced amino acids and disulfide bonds between sulfur groups on cysteines are correct.

Bloom's Level: 1. Remember
Section: 2.03
Topic: Chemistry
94. How many amino acids are present for a polypeptide chain to be called a protein?
A. 3
B. 30
C. 50
D. 100

Bloom's Level: 1. Remember
Section: 2.03
Topic: Chemistry

## True / False Questions

95. Proteins that combine with other molecules are said to be condensed.

FALSE

Bloom's Level: 1. Remember
Section: 2.03
Topic: Chemistry
96. The specific shape of a protein determines its function.

## TRUE

Bloom's Level: 2. Understand
Section: 2.03
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body

## Multiple Choice Questions

97. A protein that is combined with another type of molecule like a carbohydrate is A. conjugated.
B. denatured.
C. hydrolyzed.
D. complemented.

Bloom's Level: 1. Remember
Section: 2.03
Topic: Chemistry
98. Which of the following is NOT a function of proteins in the body?
A. carriers for membrane transport
B. enzymes
C. compose genes
D. receptors for regulator molecules

Bloom's Level: 1. Remember
Section: 2.03
Topic: Chemistry
99. Keratin and collagen are considered $\qquad$ proteins.
A. functional
B. structural
C. fibrous
D. Both structural and fibrous are correct.

Chapter 02 - Chemical Composition of the Body

## True / False Questions

100. In DNA, cytosine forms a complementary base pair with adenine. FALSE

Bloom's Level: 1. Remember
Section: 2.04
Topic: Chemistry

## Multiple Choice Questions

101. The nitrogenous base adenine is a
A. purine.
B. pyrimidine.
C. steroid.
D. prostaglandin.

Bloom's Level: 1. Remember
Section: 2.04
Topic: Chemistry
102. Which of the following is NOT a component of DNA?
A. phosphate
B. deoxyribose sugar
C. guanine
D. uracil

Bloom's Level: 1. Remember
Section: 2.04
Topic: Chemistry

Chapter 02 - Chemical Composition of the Body
103. The human genome refers to
A. all living human beings.
B. the total variations in human cells.
C. all of the genes in the cell.
D. human mutations caused by gene defects.

Bloom's Level: 1. Remember
Section: 2.04
Topic: Chemistry
104. The "spiral staircase" structure of DNA is referred to as the A. tertiary structure.
B. spiral structure.
C. the double helix.
D. the twist of life.

Bloom's Level: 1. Remember
Section: 2.04
Topic: Chemistry
105. Which of the following is NOT one of the three types of RNA?
A. dRNA
B. tRNA
C. rRNA
D. mRNA

Bloom's Level: 1. Remember
Section: 2.04
Topic: Chemistry
106. The base that is NOT found in RNA is
A. thymine.
B. guanine.
C. cytosine.
D. uracil.

Bloom's Level: 1. Remember
Section: 2.04
Topic: Chemistry
107. Which of the following is NOT a difference between DNA and RNA?
A. They have different sugars.
B. RNA is a single strand, while DNA is a double strand.
C. DNA has thymine, while RNA has uracil.
D. They both can leave the nucleus to perform their functions.

Bloom's Level: 1. Remember
Section: 2.04
Topic: Chemistry
108. The backbone of a DNA molecule is a chain of
A. alternating deoxyribose sugar and phosphate.
B. alternating phosphate and nitrogen.
C. alternating nitrogenous bases.
D. alternating deoxyribose and ribose sugars.

Chapter 02 - Chemical Composition of the Body
109. Which of the following is NOT a function of a purine-containing nucleotide?
A. neurotransmitter
B. hormone
C. energy carrier
D. coenzymes

Bloom's Level: 1. Remember
Section: 2.04
Topic: Chemistry


[^0]:    Bloom's Level: 2. Understand
    Section: 2.01
    Topic: Chemistry

[^1]:    Bloom's Level: 1. Remember
    Section: 2.02
    Topic: Chemistry

