

Answers will vary.

PTS: 1 DIF: Application REF: MCS:  
16 TOP: The balance of body functions

10. List the anatomical directions and explain each of them. If there are alternate terms for an anatomical direction, give those terms also.

ANS:  
Answers will vary.

PTS: 1 DIF: Memorization REF: MCS: 9  
TOP: Anatomical direction

## Chapter 2 Chemistry of Life

### MULTIPLE CHOICE

1. Which subatomic particle has a positive charge?

A.	proton	C.	electron
B.	neutron	D.	nucleus

ANS: A PTS: 1 DIF: Memorization  
REF: MCS: 27 TOP: Atoms

2. Which subatomic particle has no charge?

A.	proton	C.	electron
B.	neutron	D.	nucleus

ANS: B PTS: 1 DIF: Memorization  
REF: MCS: 27 TOP: Atoms

3. Which subatomic particle has a negative charge?

A.	proton	C.	electron
B.	neutron	D.	nucleus

ANS: C PTS: 1 DIF: Memorization  
REF: MCS: 27 TOP: Atoms

4. Which subatomic particle is found in the nucleus?

A.	proton	C.	electron
B.	neutron	D.	both A and B

ANS: D PTS: 1 DIF: Memorization  
REF: MCS: 27 TOP: Atoms

5. Electrons are found

A.	in the nucleus
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B.	in orbitals
C.	at various distances from the nucleus called energy levels
D.	both B and C

ANS: D                      PTS: 1                      DIF: Application    REF: Pages 27-28  
TOP: Atoms

6.        The atomic number of an atom is the number of

A.	protons	C.	electrons
B.	neutrons	D.	both A and B

N

ANS: A                      PTS: 1                      DIF: Memorization  
 REF: MCS: 27            TOP: Atoms

7. The atomic mass of an atom is the number of

A.	protons	C.	electrons
B.	neutrons	D.	both A and B

ANS: D                      PTS: 1                      DIF: Memorization  
 REF: MCS: 27            TOP: Atoms

8. The subatomic particle that determines how an atom unites with other atoms is the

A.	proton	C.	electron
B.	neutron	D.	both A and B

ANS: C                      PTS: 1                      DIF: Memorization  
 REF: MCS: 27            TOP: Atoms

9. An atom that contains 20 protons, 21 neutrons, and 20 electrons has an atomic number of

A.	20	C.	40
B.	41	D.	61

ANS: A                      PTS: 1                      DIF: Application    REF: MCS: 27  
 TOP: Atoms

10. An atom that contains 20 protons, 21 neutrons, and 20 electrons has an atomic mass of

A.	20	C.	40
B.	41	D.	61

ANS: B                      PTS: 1                      DIF: Application    REF: MCS: 27  
 TOP: Atoms

11. An atom that contains 20 protons, 21 neutrons, and 20 electrons has

A.	a positive charge
B.	a negative charge
C.	no charge (electrically neutral)
D.	not enough information is given to determine its charge

ANS: C                      PTS: 1                      DIF: Application    REF: MCS: 27  
 TOP: Atoms

12. Which of these elements is not one of the four elements that make up most of the human body?

A.	carbon	C.	oxygen
B.	nitrogen	D.	calcium

ANS: D PTS: 1 DIF: Memorization  
 REF: MCS: 28 TOP: Elements, molecules, and compounds

13. Bonds that usually dissociate in water to form electrolytes are \_\_\_\_ bonds.

A.	ionic	C.	organic
B.	covalent	D.	both B and C

ANS: A PTS: 1 DIF: Memorization  
 REF: MCS: 29 TOP: Ionic bonds

14. The bonds formed when electrons are shared are called

A.	electrolytes	C.	covalent bonds
B.	ionic bonds	D.	inorganic bonds

ANS: C PTS: 1 DIF: Memorization  
 REF: MCS: 30 TOP: Covalent bonds

15. The process of dehydration synthesis

A.	uses water to turn large molecules into smaller ones
B.	adds a molecule of water to the reactants
C.	converts smaller molecules into larger ones by removing water
D.	both A and B

ANS: C REF: PTS: 1 DIF: Memorization  
 MCS: 31 TOP: Water

16. The process of hydrolysis

A.	uses water to turn large molecules into smaller ones
B.	removes a molecule of water from the reactants
C.	converts smaller molecules into larger molecules by removing water
D.	both B and C

ANS: A REF: PTS: 1 DIF: Memorization  
 MCS: 31 TOP: Water

17. Acids have

A.	a pH less than 7	C.	more $\text{OH}^-$ than $\text{H}^+$ ions
B.	more $\text{H}^+$ ions than $\text{OH}^-$ ions	D.	both A and B

ANS: D PTS: 1 DIF:  
 Memorization REF: MCS: 32 TOP: Acids, bases,  
 and salts

18. Bases have

A.	a pH less than 7	C.	a pH greater than 7
B.	more $\text{H}^+$ ions than $\text{OH}^-$ ions	D.	both A and B

ANS: C PTS: 1 DIF:  
 Memorization REF: MCS: 32 TOP: Acids, bases,  
 and salts

19. A solution with a pH of 4

A.	has 100 times more $\text{H}^+$ ions than a solution with a pH of 2
B.	has 100 times fewer $\text{H}^+$ ions than a solution with a pH of 2
C.	has 100 times fewer $\text{H}^+$ ions than a solution with a pH of 6
D.	is basic

ANS: B PTS: 1 DIF: Synthesis REF: MCS: 32  
 TOP: Acids, bases, and salts

20. The end product of a reaction between a strong acid and a strong base is

A.	water	C.	a weak acid and a weak base
B.	a salt	D.	both A and B

ANS: D PTS: 1 DIF:  
 Memorization REF: MCS: 32 TOP: Acids, bases,  
 and salts

21. Which of the following is an example of a monosaccharide?

A.	sucrose	C.	lactose
B.	glucose	D.	glycogen

ANS: B PTS: 1 DIF:  
 Memorization REF: MCS: 33 TOP:  
 Carbohydrates

22. Which of the following is an example of a polysaccharide?

A.	sucrose	C.	lactose
B.	glucose	D.	glycogen

ANS: D REF: PTS: 1 DIF: Memorization  
MCS: 33 TOP: Carbohydrates

23. Triglycerides

A.	are steroid lipids
B.	have a phosphorus-containing unit on one end
C.	have two fatty acids
D.	have three fatty acids

ANS: D PTS: 1 DIF: Memorization  
REF: MCS: 34 TOP: Lipids

24. Phospholipids

A.	contain glycerol	C.	contain three fatty acids
B.	contain two fatty acids	D.	are steroid lipids

ANS: B PTS: 1 <sup>N</sup> DIF: Memorization  
REF: MCS: 34 TOP: Lipids

25. Cholesterol

A.	contains three fatty acids	C.	is a steroid lipid
B.	contains two fatty acids	D.	contains glycerol

ANS: C PTS: 1 DIF: Memorization  
REF: Pages 34-35 TOP: Lipids

26. Which of the following is not true of proteins?

A.	They have water-repelling tails.	C.	They contain nitrogen.
B.	They are made up of amino acids.	D.	They contain peptide bonds.

ANS: A PTS: 1 DIF: Memorization  
REF: MCS: 34 TOP: Proteins

27. Which of the following is a structural protein?

A.	collagen	C.	enzymes
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B.	keratin	D.	both A and B
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ANS: D                      PTS: 1                      DIF: Memorization  
REF: MCS: 35            TOP: Proteins

28. Which of the following is a functional protein?

A.	collagen	C.	enzymes
B.	keratin	D.	both A and B

ANS: C                      PTS: 1                      DIF: Memorization  
REF: MCS: 36            TOP: Proteins

29. Which of the following substances is not found in a DNA nucleotide?

A.	phosphate unit	C.	nitrogen base
B.	glycerol molecule	D.	a sugar

ANS: B                      PTS: 1                      DIF: Memorization  
REF: MCS: 34            TOP: Nucleic acids

30. Which substance is found only in DNA?

A.	adenine	C.	thymine
B.	guanine	D.	cytosine

ANS: C                      PTS: 1                      DIF: Memorization  
REF: MCS: 36            TOP: Nucleic acids

31. The nitrogen atom has a total of seven electrons. To have a full outer energy level, it would have to

A.	add one electron	C.	add three electrons
B.	lose one electron	D.	lose two electrons

ANS: C                      PTS: 1                      DIF: Synthesis            REF: MCS: 27  
TOP: Atoms

32. Which type of chemical bond does not result in the formation of a new molecule?

A.	hydrogen bond
B.	ionic bond
C.	covalent bond
D.	None of the above; all chemical bonds result in the formation of a new molecule.

ANS: A REF:                      PTS: 1                      DIF:                       
MCS: 30                      Memorization TOP: Hydrogen  
bonds

**TRUE/FALS  
E**

1. Matter is anything that occupies space and has mass.

ANS: T REF: PTS: 1 DIF: Memorization  
MCS: 27 TOP: Levels of chemical organization

2. The mass of an atom is determined by the total number of protons and electrons.

ANS: F REF: PTS: 1 DIF: Memorization  
MCS: 27 TOP: Atoms

3. The two subatomic particles found in the nucleus of the atom are protons and neutrons.

ANS: T REF: PTS: 1 DIF: Memorization  
MCS: 27 TOP: Atoms

4. A full atomic orbital always contains eight electrons.

ANS: F REF: PTS: 1 DIF: Memorization  
MCS: 28 TOP: Atoms

5. The atomic number of an atom is the number of protons plus the number of electrons.

ANS: F REF: PTS: 1 DIF: Memorization  
MCS: 27 TOP: Atoms

6. The closer an orbital is to the nucleus of an atom, the higher its energy level.

ANS: F REF: PTS: 1 DIF: Memorization  
MCS: 28 TOP: Atoms

7. An atom with 11 protons, 12 neutrons, and 10 electrons has an atomic number of 11.

ANS: T PTS: 1 DIF: Application REF: MCS: 27  
TOP: Atoms

8. An atom with 11 protons, 12 neutrons, and 10 electrons has an atomic mass of 21.

ANS: F PTS: 1 DIF: Application REF: MCS: 27  
TOP: Atoms



9. An atom with 11 protons, 12 neutrons, and 10 electrons has a +1 charge.

ANS: T PTS: 1 DIF: Application REF: MCS: 27  
TOP: Atoms

10. An element is a substance composed of only one type of atom.

ANS: T PTS: 1 DIF: Memorization  
REF: MCS: 28 TOP: Elements, molecules, and  
compounds

11. All molecules are not necessarily compounds.

ANS: T PTS: 1 DIF: Application REF: MCS: 28  
TOP: Elements, molecules, and compounds

12. Chemical bonds form when atoms share, donate, or borrow electrons.

ANS: T PTS: 1 DIF: Memorization  
REF: MCS: 29 TOP: Chemical bonding

13. Ionic bonds result from atoms sharing electrons.

ANS: F PTS: 1 DIF: Memorization  
REF: MCS: 29 TOP: Ionic bonds

14. When an ionic compound is put into water, it dissociates into ions.

ANS: T PTS: 1 DIF: Memorization  
REF: MCS: 29 TOP: Ionic bonds

15. Covalent bonds are formed when atoms share electrons.

ANS: T PTS: 1 DIF: Memorization  
REF: MCS: 30 TOP: Covalent bonds

16. When a covalent compound is put into water, it dissociates into ions.

ANS: F PTS: 1 DIF: Memorization  
REF: MCS: 30 TOP: Covalent bonds

17. For a compound to be considered an organic compound it must have a C-O or an H-O bond.

ANS: F PTS: 1 DIF: Memorization

REF: MCS: 31 TOP: Inorganic chemistry

18. Water is the most abundant organic compound in the body.

ANS: F REF: PTS: 1 DIF: Memorization  
MCS: 31 TOP: Water

19. The process of dehydration synthesis makes bigger molecules from smaller molecules.

ANS: T REF: PTS: 1 DIF: Memorization  
MCS: 31 TOP: Water

20. The process of dehydration synthesis has water as one of its end products.

ANS: T REF: PTS: 1 DIF: Memorization  
MCS: 31 TOP: Water

21. The process of hydrolysis has water as one of its end products.

ANS: F REF: PTS: 1 DIF: Memorization  
MCS: 31 TOP: Water

22. One of the end products of hydrolysis would have one more hydrogen atom than it did at the beginning of the reaction.

ANS: T PTS: 1 DIF: Synthesis REF: MCS: 31  
TOP: Water

23. Acids have a higher concentration of  $H^+$  ions than  $OH^-$  ions.

ANS: T PTS: 1 DIF:  
Memorization REF: MCS: 32 TOP: Acids, bases,  
and salts

24. Bases have a higher concentration of  $OH^-$  ions than  $H^+$  ions.

ANS: T PTS: 1 DIF:  
Memorization REF: MCS: 32 TOP: Acids, bases,  
and salts

25. A solution with a pH of 8 has more  $H^+$  ions than a solution with a pH of 4.

ANS: F PTS: 1 DIF: Application REF: MCS: 32  
TOP: Acids, bases, and salts

26. A solution with a pH of 5 has more  $H^+$  ions than a solution with a pH of 7.

ANS: T PTS: 1 DIF: Application REF: MCS: 32  
TOP: Acids, bases, and salts

27. A solution with a pH of 2 has 10 times the number of  $H^+$  ions than a solution with a pH of 3.

ANS: T PTS: 1 DIF: Application REF: MCS: 32  
TOP: Acids, bases, and salts

28. When a strong acid and a strong base react, one of the end products is water.

ANS: T PTS: 1 DIF:  
Memorization REF: MCS: 32 TOP: Acids, bases,  
and salts

29. A weak acid almost completely dissociates in water.

ANS: F PTS: 1 <sup>N</sup> DIF:  
Memorization REF: MCS: 32 TOP: Acids, bases,  
and salts

30. When a strong acid and a strong base react, one of the end products is a salt.

ANS: T PTS: 1 DIF:  
Memorization REF: MCS: 32 TOP: Acids, bases,  
and salts

31. A buffer is a substance that resists a sudden change in

pH. ANS: T PTS: 1 DIF: Memorization  
REF: MCS: 33 TOP: Acids, bases, and salts

32. The basic unit of a carbohydrate is a monosaccharide.

ANS: T PTS: 1 DIF:  
Memorization REF: MCS: 33 TOP:  
Carbohydrates

33. A molecule of glucose is larger than a molecule of sucrose.

ANS: F PTS: 1 DIF: Application REF: MCS: 33

TOP: Carbohydrate  
s

N

34. Sucrose is an example of a disaccharide.

ANS: T REF: PTS: 1 DIF: Memorization  
MCS: 33 TOP: Carbohydrates

35. Glycogen and starch are both examples of polysaccharides.

ANS: T REF: PTS: 1 DIF: Memorization  
MCS: 33 TOP: Carbohydrates

36. The process of dehydration synthesis could be used to convert a monosaccharide into a disaccharide.

ANS: T PTS: 1 DIF: Synthesis REF: MCS: 31 | MCS: 33  
TOP: Water and carbohydrates

37. Both fats and oils are lipids.

ANS: T PTS: 1 DIF: Memorization  
REF: MCS: 34 TOP: Lipids

38. A triglyceride contains two fatty acid molecules.

ANS: F PTS: 1 DIF: Memorization  
REF: MCS: 34 TOP: Lipids

39. A triglyceride contains a molecule of glycerol.

ANS: T PTS: 1 DIF: Memorization  
REF: MCS: 34 TOP: Lipids

40. Phospholipids contain three fatty acids.

ANS: F PTS: 1 DIF: Memorization  
REF: MCS: 34 TOP: Lipids

41. Phospholipids are important molecules in the cell membrane.

ANS: T PTS: 1 DIF: Memorization  
REF: Pages 34-35 TOP: Lipids

42. Cholesterol is a steroid lipid.

ANS: T PTS: 1 DIF: Memorization

REF: MCS: 35 TOP: Lipids

43. Cholesterol contains two fatty acid molecules.

ANS: F PTS: 1 DIF: Memorization

REF: MCS: 34 TOP: Lipids

44. Cholesterol is needed for the formation of several hormones in the body.

ANS: T PTS: 1 DIF: Memorization

REF: MCS: 34 TOP: Lipids

45. The basic building block of proteins is nucleotides.

ANS: F PTS: 1 DIF: Memorization

REF: MCS: 35 TOP: Proteins

46. The basic building blocks of protein are held together by peptide bonds.

ANS: T PTS: 1 DIF: Memorization

REF: MCS: 35 TOP: Proteins

47. Structural proteins include collagen, keratin, and enzymes.

ANS: F PTS: 1 DIF: Memorization

REF: Pages 35-36 TOP: Proteins

48. Enzymes are functional proteins that act as chemical catalysts.

ANS: T PTS: 1 DIF: Memorization

REF: MCS: 36 TOP: Proteins

49. The basic building blocks of nucleic acids are nucleotides.

ANS: T PTS: 1 DIF: Memorization

REF: MCS: 36 TOP: Nucleic acids

50. The DNA and RNA molecules are the same except the DNA has thymine and the RNA molecule has uracil.

ANS: F PTS: 1 DIF: Application REF: MCS: 36

TOP: Nucleic acids

51. The nitrogen bases adenine, guanine, and cytosine can be found in both RNA and DNA.

ANS: T REF: PTS: 1 DIF: Memorization  
MCS: 36 TOP: Nucleic acids

52. One difference between DNA and RNA is the type of sugar found in the nucleotides.

ANS: T REF: PTS: 1 DIF: Memorization  
MCS: 36 TOP: Nucleic acids

53. The smallest unit of matter is the electron.

ANS: F REF: PTS: 1 DIF: Memorization  
MCS: 27 TOP: Levels of chemical organization

54. The oxygen atom has a total of eight electrons. That means it has six electrons in its outer energy level.

ANS: T PTS: 1 DIF: Analysis REF: MCS: 27  
TOP: Atoms

55. The number of electrons in the outer energy level of an atom determines how it behaves chemically.

ANS: T REF: PTS: 1 DIF: Memorization  
MCS: 27 TOP: Atoms

56. The formula for glucose is  $C_6H_{12}O_6$ . This indicates that there are 24 atoms in a molecule of glucose.

ANS: T PTS: 1 DIF: Application REF: MCS: 28  
TOP: Elements, molecules, and compounds

57. The electrolyte most often formed by magnesium (Mg) is  $Mg^{++}$ . This shows that the ion has two more electrons than protons.

ANS: F PTS: 1 DIF: Application REF: MCS: 30  
TOP: Ionic bonds

58. Water is the most common solute in the human body.

ANS: F REF: PTS: 1 DIF: Memorization  
MCS: 31 TOP: Water

59. Both sucrose and lactose are examples of disaccharides.

ANS: T REF: PTS: 1 DIF: Memorization  
MCS: 33 TOP: Carbohydrates

60. Fats tend to be solids at room temperature.

ANS: T REF: PTS: 1 DIF: Memorization  
MCS: 34 TOP: Lipids

61. Both cholesterol and phospholipids are involved in the structure of the cell membrane.

ANS: T REF: PTS: 1 DIF: Memorization  
MCS: 34 TOP: Lipids

62. The lock-and-key model describes how two strands of DNA are able to join so precisely to form a double helix.

ANS: F REF: PTS: 1 DIF: Memorization  
MCS: 36 TOP: Proteins

N

## MATCHING

Match each part of the atom with its corresponding description.

A.	protons	C.	electrons
B.	neutrons	D.	both protons and neutrons

- part of the atom that is found in the nucleus
- part of the atom that is found in orbitals around the nucleus
- part of the atom that gives an atom its atomic number
- part of the atom that when combined with the proton gives the atom its atomic mass

1. ANS: D PTS: 1 DIF: Memorization

REF: MCS: 27 TOP: Atoms

2. ANS: C PTS: 1 DIF: Memorization

REF: MCS: 27 TOP: Atom

3. ANS: A PTS: 1 DIF: Memorization  
:

REF: MCS: 27 TOP: Atoms



4. ANS: B PTS: 1 DIF: Memorization

REF: MCS: 27 TOP: Atoms

*Match each organic compound with its corresponding description.*

A.	carbohydrates	E.	proteins
B.	triglycerides	F.	RNA
C.	phospholipids	G.	DNA
D.	cholesterol		

5. compound whose basic unit is a monosaccharide
6. nucleic acid that contains the nitrogen base uracil
7. lipid that is used to make hormones such as estrogen and testosterone
8. nucleic acid that contains the nitrogen base thymine
9. lipid that is composed of a molecule of glycerol and three fatty acids
10. lipid that has two fatty acids and is important in the cell membrane
11. an enzyme

5. ANS: A PTS: 1 DIF: Memorization

REF: MCS: 33 TOP: Carbohydrate

6. ANS: s F<sub>N</sub> PTS: 1 DIF: Memorization  
:

REF: MCS: 36 TOP: Nucleic acids

7. ANS: D PTS: 1 DIF: Memorization  
:

REF: MCS: 34 TOP: Lipid

8. ANS: s G PTS: 1 DIF: Memorization  
:

REF: MCS: 36 TOP: Nucleic acids

9. ANS: B PTS: 1 DIF: Memorization  
:

REF: MCS: 34 TOP: Lipid

10. ANS: s C PTS: 1 DIF: Memorization  
:

REF: MCS: 34 TOP: Lipid

11. ANS: s E PTS: 1 DIF: Memorization  
:

REF: MCS: 35 TOP: Proteins

*Match each term with its corresponding description or definition.*

A.	nucleus	G.	covalent bonds
B.	ionic bond	H.	orbitals

C.	atomic mass	I.	hydrolysis
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N

D.	compound	J.	dehydration synthesis
E.	electrolyte	K.	acid
F.	atomic number	L.	base

12. part of the atom in which electrons are found  
 13. equal to the number of protons an atom has  
 14. molecules that form ions when dissolved in water  
 15. process by which reactants combine only after hydrogen and oxygen atoms have been removed  
 16. compound that produces  $H^+$  ions  
 17. part of the atom in which protons are found  
 18. bond formed by the attraction of atoms or molecules that have opposite charges  
 19. compound that produces  $OH^-$  ions  
 20. equal to the number of protons and neutrons in an atom  
 21. process by which water is used to make smaller molecules form larger molecules  
 22. bond that is formed when electrons are shared  
 23. a molecule that contains more than one type of atom

12. ANS: H N PTS: 1 DIF: Memorization  
 REF: MCS: 27 TOP: Atoms  
 13. ANS: F PTS: 1 DIF: Memorization  
 REF: MCS: 27 TOP: Atom  
 14. ANS: s E PTS: 1 DIF: Memorization  
 :  
 REF: MCS: 30 TOP: Ionic bonds  
 15. ANS: J PTS: 1 DIF: Memorization  
 :  
 REF: MCS: 31 TOP: Water  
 16. ANS: K PTS: 1 DIF: Memorization  
 :  
 REF: MCS: 32 TOP: Acids, bases, and salts  
 17. ANS: A PTS: 1 DIF: Memorization  
 REF: MCS: 27 TOP: Atom  
 18. ANS: s B PTS: 1 DIF: Memorization  
 :  
 REF: MCS: 30 TOP: Ionic bonds  
 19. ANS: L PTS: 1 DIF: Memorization  
 :

REF: MCS: 32	TOP: Acids, bases, and			
20.	ANS salts C	PTS: 0	DIF: Memorization	:
REF: MCS: 27	TOP: Atoms			
21.	ANS I	PTS: 0	DIF: Memorization	:
REF: MCS: 31	TOP: Water			
22.	ANS G	PTS: 0	DIF: Memorization	:
REF: MCS: 30	TOP: Covalent bonds			
23.	ANS D	PTS: 0	DIF: Memorization	:

REF: MCS: 28 TOP: Elements, molecules, and compounds

### SHORT ANSWER

1. Name the three <sup>N</sup> parts of the atom and give a description of each.

ANS:

Answers will vary.

PTS: 1

DIF: Memorization

REF: MCS: 27

TOP: Atoms

2. Explain how an ionic bond forms.

ANS:

Answers will vary.

PTS: 1

DIF: Memorization

REF: MCS: 30

TOP: Ionic bonds

3. Explain how a covalent bond forms.

ANS:

Answers will vary.

PTS: 1

DIF: Memorization

REF: MCS:

30 TOP:

Covalent bonds

4. Explain the processes of dehydration synthesis and hydrolysis.

ANS:

N

Answers will vary.

PTS: 1 DIF: Memorization REF: MCS:  
31 TOP: Water

5. Describe the difference between an acid solution and a base solution in terms of the amount and types of ions in each.

ANS:  
Answers will vary.

PTS: 1 DIF: Memorization REF: MCS:  
32 TOP: Acids, bases, and salts

6. Explain the relationship among  $H^+$  ion concentration,  $OH^-$  ion concentration, and pH.

ANS:  
Answers will vary.

PTS: 1 DIF: Memorization REF: MCS:  
32 TOP: Acids, bases, and salts

N

7. Describe the structure of carbohydrates and explain their use in the body.

ANS:  
Answers will vary.

PTS: 1 DIF: Memorization REF: MCS:  
33 TOP: Carbohydrates

8. Describe the three types of lipids and give the function of each.

ANS:  
Answers will vary.

PTS: 1 DIF: Memorization REF: MCS: 34  
TOP: Lipids

9. Describe the structure of a protein and give examples of a structural protein and a functional protein.

ANS:  
Answers will vary.