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# **Chapter 02: The Chemistry of Life**

### MULTIPLE CHOICE

1.	The smallest unit of a a. amino acid. b. molecule.	chemica	al element tha	t displa c. d.	atom.	at element is a(n)	
	ANS: C MSC: Remembering	DIF: I	Easy	REF:	2.1	OBJ:	2.1
2.	A proton hasa. no b. a neutral	_ charge	e.		a negative a positive		
	ANS: D MSC: Remembering	DIF: I	Easy	REF:	2.1	OBJ:	2.1
3.	Electrons are found  a. in the nucleus of a  b. only in complex r  c. in one or more sh  d. in both the nucleus	nolecule ells that	surround the		nucleus.		
	ANS: C MSC: Remembering	DIF: 1	Moderate	REF:	2.1	OBJ:	2.1
<ul> <li>4. Radioisotopes are useful in scientific research and medicine because <ul> <li>a. have a different number of protons than other isotopes of the san</li> <li>b. give off high-energy radiation that can be detected by film and symachines.</li> <li>c. have the same atomic mass as other isotopes of the same elemen</li> <li>d. have a different number of electrons than other isotopes of the sa</li> </ul> </li> </ul>						ame ele l specia ent.	ement. alized scanning
	ANS: B MSC: Understanding		Moderate	REF:	2.1	OBJ:	2.1
5.	Chemists often repres neutrons, and electron a. 10 p, 10 n, 10 e b. 15 p, 15 n, 15 e			have an		umber	ate the numbers of protons of 30?
	ANS: B MSC: Applying	DIF: I	Moderate	REF:	2.1	OBJ:	2.1
6.	An atom of the eleme a. neutrons. b. nuclei.	nt with t	he atomic nur	c.	_	form aı	n ion) always contains 11
	ANS: D MSC: Applying	DIF: I	Difficult	REF:	2.1   2.2	OBJ:	2.1
7.	How many hydrogen a. 8	atoms ar	e in a molecu	le of C <sub>8</sub>			

	b. 10			d.	24		
	ANS: B MSC: Applying	DIF:	Easy	REF:	2.2	OBJ:	2.2
8.	How many atoms at a. 4 b. 8	re presen	t in a single mo		12	)	
	ANS: D MSC: Applying	DIF:	Easy	REF:	2.2	OBJ:	2.1
9.	How many differen a. 4 b. 8	t elemen	ts would be nee	eded to c. d.	12	olecule o	of $C_8H_{10}N_4O_2$ ?
	ANS: A MSC: Applying	DIF:	Easy	REF:	2.2	OBJ:	2.1
10.	<ul><li>a. It contains no contains a document</li><li>b. It contains a document</li><li>c. To be considered oxygen is too so</li></ul>	ovalent buble covaled a composition	oonds. alent bond but a pound, there m	not a sii ust be a	ngle covalent t minimum of t	ond. hree ato	not a compound; why not? oms; atmospheric different elements.
	ANS: D MSC: Understandi	DIF:	Easy	REF:	2.2	OBJ:	2.1
11.	Covalent bonds are a. the sharing of v b. the transfer of v c. the sharing of e d. the conversion	alence el alence el lectrons	ectrons. lectrons from o	st shell.			
	ANS: A MSC: Understandi		Moderate	REF:	2.2	OBJ:	2.3
12.	How many covalent a. One b. Two c. Three d. None; these ato ANS: A MSC: Applying	t bonds v	vill form betwe	en thes		OBJ:	2.3
13.	The outer electron s result, nitrogen can					lectrons	but contains only five. As a

a. Zerob. Onec. Threed. Eight

ANS: C DIF: Difficult REF: 2.2 OBJ: 2.3

MSC: Applying

- 14. Ionic bonds
  - a. result from the sharing of electrons between atoms.
  - b. form only between polar molecules.
  - c. form between atoms that develop opposite charges.
  - d. result from the natural repulsion that develops between protons.

ANS: C DIF: Easy REF: 2.2 OBJ: 2.4

MSC: Remembering

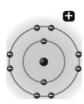
15. Which of the following combinations of atoms would form ionic bonds?

a.  $H^+$  and O c.  $Na^+$  and  $Cl^$ b.  $Na^+$  and  $K^+$  d.  $PO_4^-$  and  $I_2^-$ 

ANS: C DIF: Easy REF: 2.2 OBJ: 2.4

MSC: Remembering

16. Examine the following illustration, a representation of a sodium ion with a charge of +1. Based on the information provided, determine the proton number for this atom.



a. 8 b. 9 c. 10 d. 11

ANS: D DIF: Moderate REF: 2.2 OBJ: 2.1 | 2.4

MSC: Understanding

17. Individual water molecules orient toward each other because of the \_\_\_\_\_ bonds that form between them.

a. covalentb. hydrogenc. peptided. ionic

ANS: B DIF: Easy REF: 2.3 OBJ: 2.3 | 2.5

MSC: Remembering

- 18. Oil and water do not mix together well because
  - a. water is polar and oil is nonpolar.
  - b. only identical molecules of the same chemical can mix together easily.
  - c. water has hydrogen bonds and oil is polar.
  - d. water and oil are covalently bonded together.

ANS: A DIF: Moderate REF: 2.3 OBJ: 2.5

MSC: Applying

19. You are given an unknown substance and asked to determine whether it is polar or nonpolar. The easiest way to do this would be to

a	determine	whether th	e compoun	d is held	together h	y hydrogen	honds
а.	ucteriiiiic	whether th	c compound	a is neiu	together t	Jy Hydrogen	bonus.

- b. determine the number of electrons in the compound's outer shell.
- c. mix the compound with an ionic substance to see whether its bonds can withstand the
- d. determine whether the compound dissolves in water.

ANS: D DIF: Moderate REF: 2.3 OBJ: 2.5

MSC: Understanding

20. In the following illustration, a positive ion is surrounded by water molecules.



The water molecules orient as shown because the slightly \_\_\_\_\_ atoms in the water molecules are attracted to the positive charge of the ion.

a. negative hydrogen

c. negative oxygen

b. positive hydrogen

d. positive oxygen

ANS: C MSC: Understanding

DIF: Moderate REF: 2.3

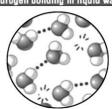
OBJ: 2.5

21. Based only on the following illustration, it could be predicted that ice floats on liquid water because









- a. the crystal structure of ice is more regular than that seen in liquid water.
- b. the distance between water molecules in ice is greater than in liquid water.
- c. the cool temperature of ice reduces the extent of molecular motion relative to liquid water.
- d. when ice forms, the hydrogen bond in the water molecule becomes nonpolar; ice behaves like oil.

ANS: B

DIF: Difficult REF: 2.3 OBJ: 2.5

MSC: Analyzing

22. The chemical reaction that represents the combustion of glucose is  $C_6H_{12}O_6 + O_2 \rightarrow$ 

 $CO_2 + H_2O + E$ ; the reactants are

a. CO<sub>2</sub> and H<sub>2</sub>O.

c.  $C_6H_{12}O_6$  and  $O_2$ .

b.  $O_2$  and  $H_2O$ .

d.  $C_6H_{12}O_6$  and  $CO_2$ .

ANS: C

DIF: Easy

REF: 2.4

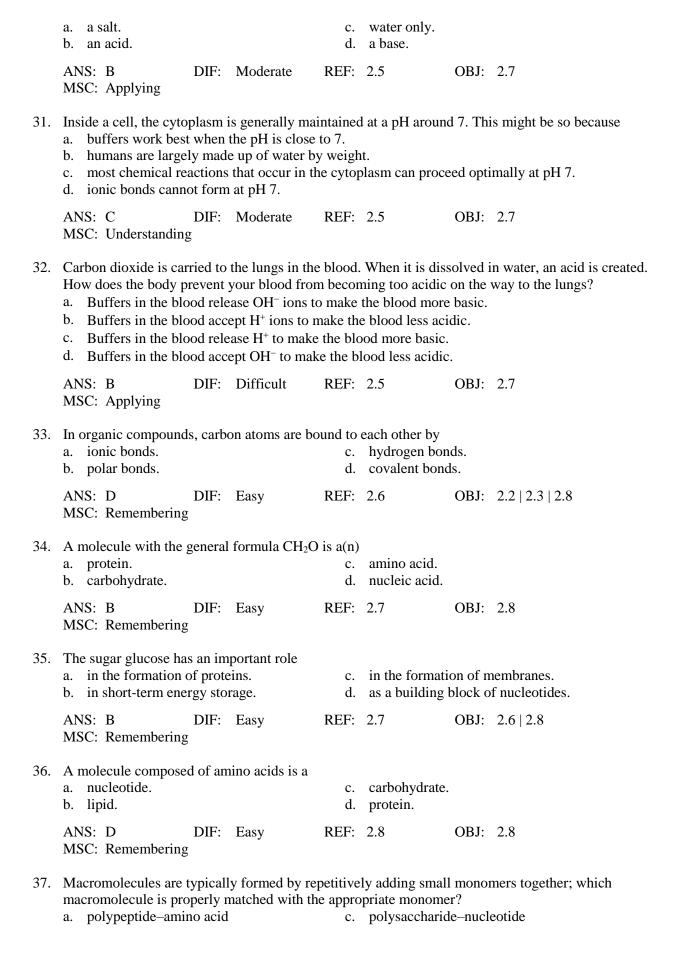
OBJ: 2.6

MSC: Applying

23. In the equation  $2 H_2O_2 \rightarrow 2 H_2O + O_2$ , the  $H_2O_2$  molecules are the \_\_\_\_\_ and the  $H_2O + O_2$ molecules are the \_\_\_\_\_.

	<ul><li>a. products; products</li><li>b. reactants; products</li></ul>				products; reac reactants; reac		
	ANS: B MSC: Applying	DIF:	Easy	REF:	2.4	OBJ:	2.6
24.	beginning of the reac number of molecules $\rightarrow$ Br <sub>2</sub> + a. 1; 1; 1; 1	tion mu	st be present a ary for each rea	t the encactant a	d. Balance the ond product:	chemic	all atoms present at the al reaction by indicating the $Cl_2+$ NaBr
	b. 1; 2; 1; 1 ANS: C	DIE	Moderate		2; 2; 1; 2 2.4	OBJ:	2.6
	MSC: Applying	DII'.	Wioderate	KEI.	2.4	ODJ.	2.0
25.	In the equation $3H_2 + a$ . 2 b. 3	$N_2 \rightarrow 1$	2NH <sub>3</sub> , how ma	c.	ecules of hydro 6 12	gen gas	s (H <sub>2</sub> ) are present?
	ANS: B MSC: Applying	DIF:	Easy	REF:	2.4	OBJ:	2.6
26.	An acid is a polar subta. becomes nonpolable leaves behind an c. accepts hydrogen d. donates hydrogen	r. OH <sup>–</sup> io ions fr	n. om the solution		and		
	ANS: D MSC: Remembering		Easy	REF:	2.5	OBJ:	2.7
27.	A solution with a pH a. acidic. b. nonpolar.	of 3 is		c. d.	basic. neutral.		
	ANS: A MSC: Applying	DIF:	Easy	REF:	2.5	OBJ:	2.7
28.	A solution with a pH	of	is	tin	nes more acidic	than a	solution with a pH of
	a. 3; 10,000; 7 b. 12; 100; 10				7; 1,000; 9 4; 10; 3		
	ANS: A MSC: Understanding		Difficult	REF:	2.5	OBJ:	2.7
29.	Of the following pH a. 3 b. 7	values,	which indicate	es the me c. d.	ost basic pH? 8 10		
	ANS: D MSC: Applying	DIF:	Easy	REF:	2.5	OBJ:	2.7

30. After adding a small amount of Solution A to Solution B, the pH of Solution B declines from 8 to 3. Solution A must contain



b. nucleic acid-amino acid d. triglyceride-cholesterol ANS: A DIF: Easy REF: 2.8 OBJ: 2.8 MSC: Applying 38. Which of the following levels of protein structure involves more than one polypeptide chain? a. primary tertiary b. secondary d. quaternary ANS: D DIF: Easy REF: 2.8 OBJ: 2.8 MSC: Remembering 39. Fevers in young children are a particular concern because oxygen is less effectively transported by hemoglobin at high temperature. How might this be explained? a. The hemoglobin becomes denatured and cannot transport the oxygen. b. The oxygen becomes denatured and cannot bind to the hemoglobin. c. Oxygen has too much thermal energy to be bound by hemoglobin. d. Oxygen evaporates at high temperature and is not available for binding with hemoglobin. DIF: Moderate REF: 2.8 OBJ: 2.8 MSC: Understanding 40. One of the symptoms of kidney disease is the presence of proteins in a patient's urine. To quickly test for kidney disease using a urine sample, a doctor might add a chemical that causes a color change when a. nitrogen is present, but not oxygen. b. nitrogen is present, but not phosphorus. c. only oxygen and hydrogen are present. d. only carbon and hydrogen are present. DIF: Difficult ANS: B REF: 2.8 OBJ: 2.8 MSC: Analyzing 41. When you place a piece of red meat on a hot barbeque, it slowly changes from soft to firm. Meat is primarily made of proteins. Which of the following might account for the change in texture during cooking? a. The heat causes the cells in the meat to produce more protein. b. The heat causes chemical bonds to form between the proteins and nucleic acids in the c. The heat from the barbeque converts proteins into lipids. d. The addition of heat causes proteins to denature and link together. ANS: D DIF: Difficult REF: 2.8 OBJ: 2.8 MSC: Applying 42. You purchase a laundry product that claims to use natural enzymes to remove stains from clothing. After spilling grape juice on your favorite shirt, you apply the product and wash your shirt (following the directions, of course). When you pull the shirt out of the washer, the stain is still there! Which of the following might explain why the stain remover did not work? a. The stain remover and the grape juice are both hydrophilic, so the enzymes could not interact with the stain. b. The pH of the water in your house has a pH of 7.0, which prevents the enzymes from

c. Before you got home from the store, you stopped at the mall and left your stain remover in

the trunk of your car on a hot day, denaturing the enzymes.

working properly.

		n remover and twith the stain.	he grape juice a	are both	hydrophobic,	so the e	nzymes could not
	ANS: C MSC: Analy		Difficult	REF:	2.8	OBJ:	2.8
43.	containing n tube contain	itrogen and pho ing a purified sa h tube. The test acids	sphorus. To test ample of one of	st this che foll g c.	nemical, a set of owing organic	of test tu compo ys turn b s	e of organic compounds bes is prepared, with each unds. The chemical is then oright red.
	ANS: A MSC: Appl		Moderate	REF:	2.8	OBJ:	2.8
44.	<ul><li>a. their fatt</li><li>b. their hyd</li><li>c. saturated water.</li></ul>	•	ups are facing tare kept away for the water, wh	the wate rom the ile unsa	r. water. turated fatty ac		separated from the the water molecules.
	ANS: B MSC: Unde	DIF:	Moderate	REF:	2.9	OBJ:	2.8
45.	a. energy s	e following is N torage of genetic inform		c.	s in living orga membrane co building bloc	onstructi	
	ANS: B MSC: Reme	DIF: embering	Moderate	REF:	2.9	OBJ:	2.8
46.	An oil is a li a. liquid b. saturated	pid that is	at room to	c.		ed	
	ANS: A MSC: Reme	DIF: embering	Moderate	REF:	2.9	OBJ:	2.8
47.	<ul><li>a. Choleste</li><li>b. Choleste</li><li>and mus</li><li>c. Choleste</li></ul>		I into other imp I into a vitamin ry component i	ortant n importa n the ce	nolecules like s ant in the grow ll membranes	th and r	maintenance of bone
	ANS: C MSC: Unde	DIF:	Moderate	REF:	2.9	OBJ:	2.8
48.	<ul><li>a. adding a</li><li>b. creating</li><li>c. substitut</li></ul>	of partial hydro intioxidants that hydrocarbon ch ing nitrogen for g double bonds	prevent lipid on the prevent are mains that are mains that are mains that are mains are many are mains are mains are many are mains are many are mains are many are mains are many ar	oxidation ore kink acid ch	n. ked than those nains.	in natur	al fats.

ANS: D DIF: Moderate REF: 2.9 OBJ: 2.8

MSC: Understanding

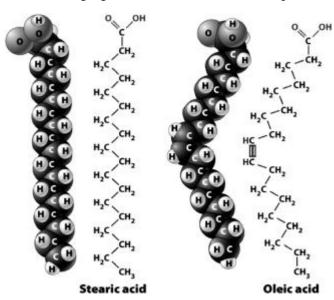
49. When phospholipids are added to water, they arrange themselves so that

- a. their hydrophobic tails are on the inside of a lipid droplet.
- b. their hydrophilic tails are on the outside of a lipid droplet.
- c. their hydrophobic heads are facing the water.
- d. their hydrophilic heads are on the inside of a lipid droplet.

ANS: A DIF: Difficult REF: 2.9 OBJ: 2.5 | 2.8

MSC: Understanding

50. The following figure shows the structural and space-filling models for stearic acid and oleic acid.



Although the two fatty acids have the same number of carbon atoms, they have different three-dimensional configurations; oleic acid has a slight bend near the middle. The result is that

- a. a pure sample of oleic acid would be more liquid than a pure sample of stearic acid.
- b. stearic acid would be classified as an unsaturated fatty acid.
- c. you would be more likely to find stearic acid in the form of an oil than in the form of a fat.
- d. oleic acid would be classified a saturated fatty acid.

ANS: A DIF: Difficult REF: 2.9 OBJ: 2.8

MSC: Applying

- 51. We use soap to clean ourselves better than we could with water alone. Soaps contain phospholipids that are responsible for the cleansing action. Which of the following statements is the most likely explanation for how soaps work?
  - a. Phospholipids are ions and therefore mix with both the water and oily dirt.
  - b. Phospholipids are completely hydrophilic and, therefore, oily dirt takes the place of the phospholipid molecules that would be dissolved in the rinse water.
  - c. The phospholipid tail attaches to the oily dirt, while the phospholipid head interacts with the rinse water and carries the dirt (and soap) away with it.
  - d. The nonpolar fatty acid chains that make up the heads of the phospholipid are hydrophilic, and thus are repelled by the water.

ANS: C DIF: Difficult REF: 2.9 OBJ: 2.5 | 2.8

MSC: Applying

- 52. Nucleotides
  - a. are the building blocks of proteins.
  - b. are involved in every chemical reaction in the cell.
  - c. form physical structures such as hair.
  - d. are the building blocks of nucleic acids.

ANS: D DIF: Easy REF: 2.10 OBJ: 2.8

MSC: Remembering

- 53. ATP is a universal fuel for living organisms. The energy that ATP molecules deliver in chemical reactions is stored in
  - a. covalent bonds between the molecule's phosphate groups.
  - b. covalent bonds between the molecule's sugar and phosphate groups.
  - c. hydrogen bonds between the bases of two of these molecules.
  - d. ionic bonds between the molecule's sugar and base.

ANS: A DIF: Moderate REF: 2.10 OBJ: 2.6 | 2.8

MSC: Understanding

- 54. Which statement below is consistent with the facts that one function of nucleotides is energy transfer and that carbohydrates can be used to store energy?
  - a. If we humans could not store and transfer energy, we would have to match our energy input (eating) exactly to our energy requirements, even while sleeping.
  - b. There are not enough kinds of amino acids for proteins to be used as energy storage molecules.
  - c. Energy transfer and storage are processes that are unique to humans and, therefore, they are used to determine the classification of people.
  - d. Energy transfer is how we take the energy we gather from photosynthesis and transfer it into water molecules for later use when we need energy.

ANS: A DIF: Difficult REF: 2.10 OBJ: 2.8

MSC: Analyzing

- 55. Both trans fats and saturated fats have been linked to comparable groups of undesirable health complications. What do the two types of molecules share in common that may account for the similarity in their health impacts?
  - a. Both molecules form solid assemblies at body temperature and clog small blood vessels.
  - b. Both molecules are rich in hydrogen that can easily form hydrogen ions and lower the pH to harmful values.
  - c. Both molecules are linear; for reasons not currently understood, linear fatty acids appear to be more difficult to metabolize and have high biological activities.
  - d. Both molecules are rapidly converted to signal molecules called prostaglandins, creating discordant signaling within the body.

ANS: C DIF: Moderate REF: Biology Matters

OBJ: 2.8 MSC: Applying

- 56. Which of the following is NOT a method used to tenderize meat?
  - a. marinades with high pH
  - b. lemon juice, vinegar, or wine
  - c. brining or soaking in a salt water bath for several hours
  - d. pounding or grinding meat

ANS: A DIF: Moderate REF: Biology in the News

OBJ: 2.8 MSC: Understanding

## COMPLETION

1.	The uncharged component in the core of an atom is a(n)								
	ANS:	neutron							
	DIF:	Easy	REF:	2.1	OBJ:	2.1	MSC:	Remembering	
2.	The su	ım of an atom's	s proton	s and neutrons	is its _	·			
	ANS:	atomic mass							
	DIF:	Moderate	REF:	2.1	OBJ:	2.1	MSC:	Remembering	
3.	20	en has six electronly form			nat can	hold up to eigh	t electro	ons. As a result, oxygen will	
	ANS:	two							
	DIF:	Moderate	REF:	2.2	OBJ:	2.3	MSC:	Applying	
4.	An ato	om that become	s charg	ed due to the g	ain or le	oss of an electro	on is ca	lled a(n)	
	ANS:	ion							
	DIF:	Easy	REF:	2.2	OBJ:	2.4	MSC:	Remembering	
5.	Molec	ules that are no	npolar	and repelled by	water	are called	·		
	ANS:	hydrophobic							
	DIF:	Moderate	REF:	2.3	OBJ:	2.4	MSC:	Remembering	
6.	Molec	ules with an un	ieven di	stribution of ch	narge ar	re described as		<u>_</u> .	
	ANS:	polar							
	DIF:	Moderate	REF:	2.3	OBJ:	2.5	MSC:	Remembering	
7.	Most 1	iving organism	s consi	st of more than	70 per	cent	by weig	ght.	
	ANS:	water							
	DIF:	Easy	REF:	2.3	OBJ:	2.2   2.5	MSC:	Remembering	
8.	The nu	umber that repr	esents r	neutrality on the	e pH sc	ale is	_•		
	ANS:	7							
	DIF:	Easy	REF:	2.5	OBJ:	2.7	MSC:	Remembering	

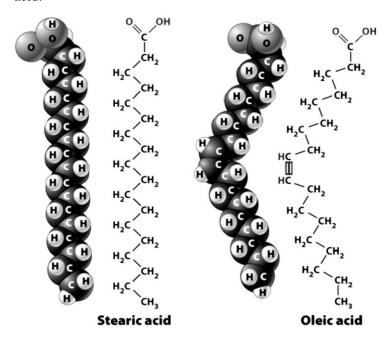
9.	. A compound that maintains the pH of a solution by taking up or releasing hydrogen ions is called a								
	ANS:	buffer							
	DIF:	Easy	REF:	2.5	OBJ:	2.7	MSC:	Remembering	
10.	The m	nost versatile at	om in li	ving systems is	S	·			
	ANS:	carbon							
	DIF:	Easy	REF:	2.6	OBJ:	2.2   2.8	MSC:	Remembering	
11.	A gro	up of monomer	s bonde	ed together form	n a	·			
	ANS:	polymer							
	DIF:	Easy	REF:	2.6	OBJ:	2.8	MSC:	Remembering	
12.		encing the imag etely separate t						red for hydrolysis to	
	-								
	ANS:	five							
	DIF:	Easy	REF:	2.6	OBJ:	2.8	MSC:	Applying	
13.	The m	nonomers in pro	oteins aı	re					
	ANS:	amino acids							
	DIF:	Easy	REF:	2.8	OBJ:	2.8	MSC:	Remembering	
14.	The ty	pes of proteins	that sp	eed up the rate	of cher	nical reactions	in the c	ell are called	
	ANS:	enzymes							
	DIF:	Easy	REF:	2.8	OBJ:	2.8	MSC:	Remembering	
15.	Lipids	s with a four-rir	ng struc	ture are called		<u></u> .			
	ANS:	sterols							
	DIF:	Easy	REF:	2.9	OBJ:	2.8	MSC:	Remembering	
16.	Most	lipids contain o	ne or m	ore of the long	, hydro	phobic hydroca	ırbon ch	nains known as	
	ANS:	fatty acids							
	DIF:	Moderate	REF:	2.9	OBJ:	2.8	MSC:	Remembering	

17. Because they are made of hydrocarbon chains that repel water, the most hydrophobic of the four classes of organic compounds is the \_\_\_\_\_.

ANS: lipids

DIF: Moderate REF: 2.9 OBJ: 2.5 | 2.8 MSC: Understanding

18. The following figure shows the chemical structure and space-filling models for stearic acid and oleic acid.



The reason oleic acid is slightly bent (as compared to stearic acid) is that it contains a \_\_\_\_\_\_between two of its carbon atoms.

ANS: double bond

DIF: Moderate REF: 2.9 OBJ: 2.8 MSC: Understanding

19. The monomers that are linked together to form a DNA polymer are called .

ANS: nucleotides

DIF: Easy REF: 2.10 OBJ: 2.8 MSC: Remembering

20. A type of organic compound that plays a role in both heredity and in energy delivery in cells is a

ANS: nucleic acid

DIF: Moderate REF: 2.10 OBJ: 2.8 MSC: Remembering

21. Marinades that contain vinegar, wine, or yogurt are able to tenderize meat by breaking down collagen into smaller polypeptides because of their \_\_\_\_\_.

ANS: acidity, low pH

DIF: Moderate REF: Biology in the News OBJ: 2.7 | 2.8

MSC: Applying

#### TRUE/FALSE

1. All the isotopes of a particular element have the same number of protons.

ANS: T DIF: Easy REF: 2.1 OBJ: 2.1

MSC: Remembering

2. An atom is in its most stable state when all its electron shells are filled to capacity.

ANS: T DIF: Easy REF: 2.2 OBJ: 2.1

MSC: Understanding

3. Covalent bonds contain ions.

ANS: F DIF: Moderate REF: 2.2 OBJ: 2.3 | 2.4

MSC: Understanding

4. The number of electrons surrounding an atom's core never changes.

ANS: F DIF: Moderate REF: 2.2 OBJ: 2.3 | 2.4

MSC: Understanding

5. The atoms in water molecules are held together by hydrogen bonds.

ANS: F DIF: Moderate REF: 2.3 OBJ: 2.5

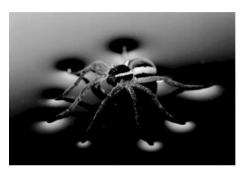
MSC: Understanding

6. Nonpolar molecules are highly charged.

ANS: F DIF: Moderate REF: 2.3 OBJ: 2.4 | 2.5

MSC: Remembering

7. Because both the wood in a tree branch and the spider's exoskeleton are composed of low-density cellulose, each floats when placed in water.



ANS: F DIF: Moderate REF: 2.3 OBJ: 2.8

MSC: Applying

8. Chemical reactions rearrange atoms, but do not create or destroy them.

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11. The primary structure of a protein consists of its amino acid sequence.

DIF: Easy

MSC: Remembering

ANS: T

12. Proteins provide most of the energy for life processes.

ANS: F DIF: Moderate REF: 2.8 OBJ: 2.6 | 2.8

REF: 2.8

OBJ: 2.8

MSC: Remembering

13. Steroids and proteins are different types of lipids.

ANS: F DIF: Moderate REF: 2.8 | 2.9 OBJ: 2.8

MSC: Remembering

14. Phospholipids are found in cell membranes.

ANS: T DIF: Easy REF: 2.9 OBJ: 2.8

MSC: Remembering

15. Nucleic acids contain phosphorus but not sulfur.

ANS: T DIF: Moderate REF: 2.10 OBJ: 2.8

MSC: Remembering

16. The most abundant protein found in animals is actinomyosin.

ANS: F DIF: Moderate REF: Biology in the News

OBJ: 2.8 MSC: Remembering