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: Page 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: Page 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: Page 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: Page 27 TOP: Atoms

5. Electrons are found

A. in the nucleus

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

ANS: A PTS: 1 DIF: Memorization

REF: Page 27 TOP: Atoms

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

	B. net				D. bo	oth A and B			
	ANS: REF:	D Page 27	PTS: TOP:	1 Atoms	DIF:	Memorization			
8.	The su A. pro B. ner	oton	le that d	etermines how	w an atom unites with other atoms is the C. electron D. both A and B				
	ANS: REF:	C Page 27	PTS: TOP:	1 Atoms	DIF:	Memorization			
9.	An ato A. 20 B. 41		s 20 pro	tons, 21 neutro	ons, and C. 40 D. 61				
	ANS: TOP:	A Atoms	PTS:	1	DIF:	Application REF: Page 27			
10.	An ato A. 20 B. 41		s 20 pro	tons, 21 neutro	ons, and C. 40 D. 61				
	ANS: TOP:	B Atoms	PTS:	1	DIF:	Application REF: Page 27			
11.	A. a p B. a n C. no	m that contains positive charge negative charge charge (electri t enough inform	cally ne	eutral)		d 20 electrons has			
	ANS: TOP:	C Atoms	PTS:	1	DIF:	Application REF: Page 27			
12.	Which body? A. can B. nit	bon	ents is n	ot one of the fo	C. oz	ments that make up most of the human xygen alcium			
	ANS: REF:	D Page 28	PTS: TOP:		DIF:	Memorization and compounds			
13.	Bonds A. ior B. co	nic	ssociate	in water to for	C. or	etrolytes are bonds. reganic oth B and C			
	ANS: REF:	A Page 29	PTS: TOP:	1 Ionic bonds	DIF:	Memorization			

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: Page 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 PTS: 1 DIF: Memorization REF: Page 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 PTS: 1 DIF: Memorization REF: Page 31 TOP: Water 17. Acids have A. a pH less than 7 C. more OH⁻ than H⁺ ions B. more H⁺ ions than OH⁻ ions D. both A and B ANS: D PTS: 1 DIF: Memorization REF: Page 32 TOP: Acids, bases, and salts 18. Bases have A. a pH less than 7 C. a pH greater than 7 D. both A and B B. more H⁺ ions than OH⁻ ions PTS: 1 ANS: C DIF: Memorization REF: Page 32 TOP: Acids, bases, and salts 19. A solution with a pH of 4 A. has 100 times more H⁺ ions than a solution with a pH of 2 B. has 100 times fewer H⁺ ions than a solution with a pH of 2 C. has 100 times fewer H⁺ ions than a solution with a pH of 6 D. is basic ANS: B PTS: 1 **Synthesis** DIF: REF: Page 32 TOP: Acids, bases, and salts

20. The end product of a reaction between a strong acid and a strong base isA. waterC. a weak acid and a weak base

B. a salt D. both A and B

ANS: D PTS: 1 DIF: Memorization

21. Which of the following is an example of a monosaccharide? C. lactose A. sucrose B. glucose D. glycogen ANS: B PTS: 1 DIF: Memorization REF: Page 33 TOP: Carbohydrates 22. Which of the following is an example of a polysaccharide? C. lactose A. sucrose D. glycogen B. glucose ANS: D PTS: 1 DIF: Memorization REF: Page 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: Page 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 DIF: Memorization REF: Page 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. Memorization ANS: A PTS: 1 DIF: TOP: Proteins REF: Page 34 27. Which of the following is a structural protein? A. collagen C. enzymes B. keratin D. both A and B ANS: D PTS: 1 DIF: Memorization REF: Page 35 TOP: Proteins

TOP: Acids, bases, and salts

REF: Page 32

28.	Which A. col B. ker	_	ng is a f	unctional prote	ein? C. enzymes D. both A and B				
	ANS: REF:	C Page 36	PTS: TOP:	1 Proteins	DI	F:	Memorization		
29.	A. ph	of the following osphate unit veerol molecule		ances is not fo	C.	nit	DNA nucleoti rogen base ugar	de?	
	ANS: REF:	B Page 34	PTS: TOP:	1 Nucleic acids	DI	F:	Memorization		
30.	Which A. add B. gu		ound on	ly in DNA?		-	rmine cosine		
	ANS: REF:	C Page 36	PTS: TOP:	1 Nucleic acids	DI	F:	Memorization		
31.	have to A. add	_	s a total	of seven elect	C.	ado	have a full our three electron two electrons	s	gy level, it would
	ANS: TOP:	C Atoms	PTS:	1	DI	F:	Synthesis	REF:	Page 27
32.	A. hy B. ior C. co	drogen bond nic bond valent bond					formation of a		
	ANS: REF:	A Page 30	PTS: TOP:	1 Hydrogen bor	DII nds	F:	Memorization		
TRUE/	FALSE	2							
1.	Matter	is anything tha	at occup	ies space and l	nas 1	nas	s.		
	ANS: REF:	T Page 27		1 Levels of cher	DII mica		Memorization ganization		
2.	The ma	ass of an atom	is deter	mined by the to	otal	nun	nber of protons	and ele	ectrons.
	ANS: REF:	F Page 27	PTS: TOP:	1 Atoms	DI	F:	Memorization		

3.	. The two subatomic particles found in the nucleus of the atom are protons and neutrons.								
	ANS: REF:	T Page 27		1 Atoms	DIF:	Memorization	1		
4.	A full	atomic orbital	always	contains eight	electron	S.			
	ANS: REF:	F Page 28	PTS: TOP:	1 Atoms	DIF:	Memorization	1		
5.	The at	omic number o	of an ato	om is the numb	er of pro	otons plus the r	number	of electrons.	
	ANS: REF:	F Page 27	PTS: TOP:	1 Atoms	DIF:	Memorization	1		
6.	The closer an orbital is to the nucleus of an atom, the higher its energy level.								
	ANS: REF:	F Page 28		1 Atoms	DIF:	Memorization	1		
7.	7. An atom with 11 protons, 12 neutrons, and 10 electrons has an atomic number of 11.								
	ANS: TOP:	T Atoms	PTS:	1	DIF:	Application	REF:	Page 27	
8.	2. An atom with 11 protons, 12 neutrons, and 10 electrons has an atomic mass of 21.								
	ANS: TOP:	F Atoms	PTS:	1	DIF:	Application	REF:	Page 27	
9.	An ato	om with 11 pro	tons, 12	neutrons, and	10 elect	crons has a +1 c	harge.		
	ANS: TOP:	T Atoms	PTS:	1	DIF:	Application	REF:	Page 27	
10.	An ele	ement is a subst	tance co	omposed of onl	y one ty	pe of atom.			
	ANS: REF:	T Page 28		1 Elements, mo	DIF: lecules,	Memorization and compound			
11.	All mo	olecules are no	t necess	arily compound	ds.				
	ANS: TOP:		PTS: olecules,	1 and compound	DIF: ds	Application	REF:	Page 28	
12.	Chemi	ical bonds form	n when a	atoms share, do	onate, or	r borrow electro	ons.		
	ANS: REF:	T Page 29		1 Chemical bor	DIF: ading	Memorization	1		

13.	Ionic b	onds result fro	om atom	toms sharing electrons.						
	ANS: REF:	F Page 29		1 Ionic bonds	DIF:	Memorization				
14.	When	an ionic comp	ound is	put into water,	it disso	ociates into ions.				
	ANS: REF:	T Page 29	PTS: TOP:	1 Ionic bonds	DIF:	Memorization				
15.	Covale	ent bonds are f	ormed v	when atoms sha	ire eleci	trons.				
	ANS: REF:	T Page 30	PTS: TOP:	1 Covalent bon	DIF:	Memorization				
16.	When	When a covalent compound is put into water, it dissociates into ions.								
	ANS: REF:	F Page 30		1 Covalent bon	DIF:	Memorization				
17.	For a c	compound to b	e consid	lered an organi	c comp	ound it must have a C-O or an H-O bond				
	ANS: REF:	F Page 31	PTS: TOP:	1 Inorganic che	DIF:	Memorization				
18.	Water	is the most abu	ındant c	organic compor	and in tl	he body.				
	ANS: REF:	F Page 31	PTS: TOP:	1 Water	DIF:	Memorization				
19.	The pr	The process of dehydration synthesis makes bigger molecules from smaller molecules.								
	ANS: REF:	T Page 31	PTS: TOP:	1 Water	DIF:	Memorization				
20.	The pr	ocess of dehyo	lration s	synthesis has w	ater as	one of its end products.				
	ANS: REF:	T Page 31		1 Water	DIF:	Memorization				
21.	The pr	ocess of hydro	lysis ha	s water as one	of its e	nd products.				
	ANS: REF:	F Page 31	PTS: TOP:	1 Water	DIF:	Memorization				
22.		f the end produ ning of the reac		ydrolysis woul	d have	one more hydrogen atom than it did at the				

	ANS: TOP:	T Water	PTS:	1	DIF:	Synthesis	REF:	Page 31		
23.	Acids	have a higher	concenti	ration of H ⁺ ior	ns than (OH ⁻ ions.				
	ANS: REF:	T Page 32		1 Acids, bases,		Memorization ts	1			
24.	Bases	have a higher	concenti	ration of OH ⁻ i	ons thar	n H ⁺ ions.				
	ANS: REF:	T Page 32	PTS: TOP:	1 Acids, bases,	DIF: and salt	Memorization ts	1			
25.	A solu	ition with a pH	of 8 has	s more H ⁺ ions	than a s	solution with a	pH of 4	ł.		
	ANS: TOP:	F Acids, bases,	PTS: and salt		DIF:	Application	REF:	Page 32		
26.	A solution with a pH of 5 has more H ⁺ ions than a solution with a pH of 7.									
	ANS: TOP:	T Acids, bases,	PTS: and salt		DIF:	Application	REF:	Page 32		
27.	A solu	tion with a pH	of 2 has	s 10 times the 1	number	of H ⁺ ions thar	n a solut	tion with a pH of 3.		
	ANS: TOP:	T Acids, bases,	PTS: and salt		DIF:	Application	REF:	Page 32		
28.	When	a strong acid a	nd a str	ong base react,	one of	the end produc	ts is wa	ter.		
	ANS: REF:	T Page 32	PTS: TOP:	1 Acids, bases,	DIF: and salt	Memorization ts	1			
29.	A wea	k acid almost o	complete	ely dissociates	in water	r.				
	ANS: REF:	F Page 32		1 Acids, bases,	DIF: and salt	Memorization ts	1			
30.	When	a strong acid a	nd a str	ong base react,	one of	the end produc	ts is a s	alt.		
	ANS: REF:	T Page 32		1 Acids, bases,	DIF: and salt	Memorization ts	1			
31.	A buff	er is a substanc	ce that r	esists a sudden	change	in pH.				
	ANS: REF:	T Page 33	PTS: TOP:	1 Acids, bases,	DIF: and salt	Memorization ts	1			
32.	The ba	asic unit of a ca	arbohyd	rate is a monos	sacchari	de.				

		T Page 33		1 Carbohydrate	DIF:	Memorization	1	
33.	A mole	ecule of glucos	se is larg	ger than a mole	cule of	sucrose.		
	ANS: TOP:	F Carbohydrate	PTS:	1	DIF:	Application	REF:	Page 33
34.	Sucros	se is an exampl	e of a d	isaccharide.				
		T Page 33	PTS: TOP:	1 Carbohydrate	DIF:	Memorization	1	
35.	Glycog	gen and starch	are both	n examples of p	oolysacc	charides.		
	ANS: REF:			1 Carbohydrate	DIF:	Memorization	1	
36.	The process of dehydration synthesis could be used to convert a monosaccharide into a disaccharide.							
	ANS: TOP:	T Water and car	PTS:		DIF:	Synthesis	REF:	Page 31 Page 33
37.	Both f	ats and oils are	lipids.					
	ANS: REF:	T Page 34	PTS: TOP:		DIF:	Memorization	1	
38.	A trigl	yceride contain	ns two f	atty acid molec	cules.			
	ANS: REF:	F Page 34	PTS: TOP:	1 Lipids	DIF:	Memorization	1	
39.	A trigl	yceride contain	ns a mol	lecule of glyces	rol.			
	ANS: REF:	T Page 34	PTS: TOP:	1 Lipids	DIF:	Memorization	1	
40.	Phospl	holipids contai	n three	fatty acids.				
	ANS: REF:	F Page 34	PTS: TOP:	1 Lipids	DIF:	Memorization	1	
41.	. Phospholipids are important molecules in the cell membrane.							

DIF: Memorization

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

42. Cholesterol is a steroid lipid.									
		T Page 35		1 Lipids	DIF:	Memorization			
43.	Choles	sterol contains t	two fatt	y acid molecul	es.				
	ANS: REF:	F Page 34	PTS: TOP:	1 Lipids	DIF:	Memorization			
44.	Choles	sterol is needed	for the	formation of se	everal h	ormones in the body.			
	ANS: REF:	T Page 34	PTS: TOP:	1 Lipids	DIF:	Memorization			
45.	The ba	sic building blo	ock of p	proteins is nucle	eotides.				
	ANS: REF:	F Page 35	PTS: TOP:	1 Proteins	DIF:	Memorization			
46.	The ba	sic building blo	ocks of	protein are hele	d togeth	er by peptide bonds.			
	ANS: REF:	T Page 35		1 Proteins	DIF:	Memorization			
47.	Structu	aral proteins inc	clude co	ollagen, keratin	in, and enzymes.				
	ANS: REF:	F Pages 35-36	PTS: TOP:		DIF:	Memorization			
48.	Enzym	nes are function	al prote	eins that act as	chemica	al catalysts.			
	ANS: REF:	T Page 36	PTS: TOP:	1 Proteins	DIF:	Memorization			
49.	The ba	sic building blo	ocks of	nucleic acids a	re nucle	eotides.			
	ANS: REF:	T Page 36	PTS: TOP:	1 Nucleic acids	DIF:	Memorization			
50.		NA and RNA n ıle has uracil.	nolecule	es are the same	except	the DNA has thymine and the RNA			
	ANS: TOP:	F Nucleic acids	PTS:	1	DIF:	Application REF: Page 36			
51.	The ni	trogen bases ad	lenine, į	guanine, and cy	tosine o	can be found in both RNA and DNA			

	ANS: REF:	T Page 36	PTS: TOP:	1 Nucleic acids	DIF:	Memorization	l		
52.	One di	fference betwe	en DNA	A and RNA is tl	ne type	of sugar found	in the n	nucleotides.	
	ANS: REF:	T Page 36	PTS: TOP:	1 Nucleic acids	DIF:	Memorization	l		
53.	The sn	nallest unit of r	natter is	the electron.					
	ANS: REF:	F Page 27	PTS: TOP:	1 Levels of cher		Memorization ganization	l		
54.	The ox energy		a total	of eight electro	ns. Tha	t means it has s	six elect	trons in its outer	
	ANS: TOP:	T Atoms	PTS:	1	DIF:	Analysis	REF:	Page 27	
55.	The nu chemic		ons in th	ne outer energy	level of	f an atom deter	mines l	now it behaves	
	ANS: REF:	T Page 27	PTS: TOP:	1 Atoms	DIF:	Memorization	l		
56.	The fo	•	ose is C	$_{6}\mathrm{H}_{12}\mathrm{O}_{6}$. This in	dicates t	that there are 2	4 atoms	in a molecule of	
	ANS: TOP:			1 and compound		Application	REF:	Page 28	
57.	The electrolyte most often formed by magnesium (Mg) is Mg ⁺⁺ . This shows that the ion has two more electrons than protons.								
	ANS: TOP:	F Ionic bonds	PTS:	1	DIF:	Application	REF:	Page 30	
58.	Water	is the most con	nmon so	olute in the hun	nan bod	y.			
	ANS: REF:	F Page 31	PTS: TOP:		DIF:	Memorization	l		
59.	Both s	ucrose and lact	ose are	examples of di	sacchari	ides.			
	ANS: REF:	T Page 33	PTS: TOP:	1 Carbohydrates		Memorization	l		
60.	Fats te	nd to be solids	at room	n temperature.					

ANS: T PTS: 1 DIF: Memorization

REF: Page 34 TOP: Lipids

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

ANS: T PTS: 1 DIF: Memorization

REF: Page 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 PTS: 1 DIF: Memorization

REF: Page 36 TOP: Proteins

MATCHING

Match each part of the atom with its corresponding description.

A. protons C. electrons

B. neutrons D. both protons and neutrons

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

1. ANS: D PTS: 1 DIF: Memorization

REF: Page 27 TOP: Atoms

2. ANS: C PTS: 1 DIF: Memorization

REF: Page 27 TOP: Atoms

3. ANS: A PTS: 1 DIF: Memorization

REF: Page 27 TOP: Atoms

4. ANS: B PTS: 1 DIF: Memorization

REF: Page 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:	Page 33	TOP:	Carbohydrate	S	
6.	ANS:	F	PTS:	1	DIF:	Memorization
	REF:	Page 36	TOP:	Nucleic acids		
7.	ANS:	D	PTS:	1	DIF:	Memorization
	REF:	Page 34	TOP:	Lipids		
8.	ANS:	G	PTS:	1	DIF:	Memorization
	REF:	Page 36	TOP:	Nucleic acids		
9.	ANS:	В	PTS:	1	DIF:	Memorization
	REF:	Page 34	TOP:	Lipids		
10.	ANS:	C	PTS:	1	DIF:	Memorization
	REF:	Page 34	TOP:	Lipids		
11.	ANS:	E	PTS:	1	DIF:	Memorization

Match each term with its corresponding description or definition.

TOP: Proteins

A. nucleus
B. ionic bond
C. atomic mass
D. compound
E. electrolyte
F. atomic number
G. covalent bonds
H. orbitals
I. hydrolysis
J. dehydration synthesis
K. acid
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

REF: Page 35

- 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	PTS:	1	DIF:	Memorization
	REF:	Page 27	TOP:	Atoms		
13.	ANS:	F	PTS:	1	DIF:	Memorization
	REF:	Page 27	TOP:	Atoms		
14.	ANS:	E	PTS:	1	DIF:	Memorization
	REF:	Page 30	TOP:	Ionic bonds		
15.	ANS:	J	PTS:	1	DIF:	Memorization
	REF:	Page 31	TOP:	Water		
16.	ANS:	K	PTS:	1	DIF:	Memorization
	REF:	Page 32	TOP:	Acids, bases,	and salt	S
17.	ANS:	A	PTS:	1	DIF:	Memorization

TOP: Atoms REF: Page 27 18. ANS: B PTS: 1 DIF: Memorization REF: Page 30 TOP: Ionic bonds PTS: 1 19. ANS: L DIF: Memorization REF: Page 32 TOP: Acids, bases, and salts 20. ANS: C PTS: 0 DIF: Memorization REF: Page 27 TOP: Atoms 21. ANS: I PTS: 0 Memorization DIF: REF: Page 31 TOP: Water 22. ANS: G PTS: 0 DIF: Memorization TOP: Covalent bonds REF: Page 30 23. ANS: D PTS: 0 DIF: Memorization TOP: Elements, molecules, and compounds REF: Page 28

SHORT ANSWER

1. Name the three parts of the atom and give a description of each.

ANS:

Answers will vary.

PTS: 1 DIF: Memorization REF: Page 27

TOP: Atoms

2. Explain how an ionic bond forms.

ANS:

Answers will vary.

PTS: 1 DIF: Memorization REF: Page 30

TOP: Ionic bonds

3. Explain how a covalent bond forms.

ANS:

Answers will vary.

PTS: 1 DIF: Memorization REF: Page 30

TOP: Covalent bonds

4. Explain the processes of dehydration synthesis and hydrolysis.

ANS:

Answers will vary.

PTS: 1 DIF: Memorization REF: Page 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:	ers will vary.							
	PTS: TOP:	1 Acids, bases,		Memorization s	REF:	Page 32			
6.	Explai	n the relationsh	nip amo	ng H ⁺ ion concentration, OH ⁻ ion con	ncentrat	ion, and pH.			
	ANS:	ers will vary.							
	PTS: TOP:	1 Acids, bases,	DIF: and salt	Memorization s	REF:	Page 32			
7.	Descri	be the structure	e of carb	pohydrates and explain their use in th	e body.				
	ANS:	ers will vary.							
		1 Carbohydrates	DIF:	Memorization	REF:	Page 33			
8.	Descri	be the three typ	es of li	pids and give the function of each.					
	ANS: Answe	ers will vary.							
		1 Lipids	DIF:	Memorization	REF:	Page 34			
9.	Descri proteir		e of a pr	otein and give examples of a structur	al prote	in and a functional			
	ANS: Answe	ers will vary.							
	PTS: TOP:	1 Proteins	DIF:	Memorization	REF:	Page 35			
10.	Explai	n the structure	of a nuc	cleic acid and list the differences betw	veen RN	NA and DNA.			
	ANS: Answe	ers will vary.							
	PTS: TOP:	1 Nucleic acids	DIF:	Memorization	REF:	Page 36			