Name	Date	Period
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Chapter 2 Concept Review

Directions: Answer the following questions using your notes and textbook (pages 96-125)

1. Living things cor	nsist of atoms of different	·	
2. An	is the smallest basic unit	of matter.	
3. An atom has a $_$	and elect	rons. The nucleus has	and
4. A	is made of a	toms of different elements bonded to	gether.
5 fo	rm when atoms gain or lose	electrons.	
6	bonds form between oppos	itely charged ions.	
7. Atoms share pai	rs of electrons in	bonds.	
8. A	is two or more a	toms held together by covalent bond	ls.
9	bonds form betwe	en slightly positive hydrogen atoms a	and slightly
negative atoms.			
10. Hydrogen bond	ls are responsible for three i	mportant properties of	
a. High spec	cific		
b			
C			
11. A solution is for	rmed when one substance _	in another.	
12. An	releases a hydrogen ior	when it dissolves in water.	
13. A	removes hydrogen ions f	rom a solution.	
14. A neutral soluti	on has a pH of		
15	are made of car	bon, hydrogen, and oxygen.	

16.	Carbohydrates can be b	roken down to provide	for cells.
17.	are nor	polar molecules that includ	de fats, oils, and cholesterol.
18.	Lipids have several diffe	rent functions	
	a. Broken down as a	source of	_
	b. Make up cell		
	c. Used to make		
19.	ar	e polymers of amino acid n	nonomers.
20.	differ	ent amino acids are used t	o build proteins in organisms.
21.	Proteins differ in the	and	of amino acids.
22.	Nucleic acids are polymo	ers of monomers called	
23.	Nucleotides are made of	·,	group, and a nitrogen
24.	Bond energy is the amou	unt of energy that breaks a	·
	a. Energy is	To break bonds	
	b. Energy is	when bonds t	orm
25.	A reaction is at	when reac	tants and products form at the same rate.
26.	e	nergy is the amount of ene	ergy that needs to be absorbed to start a
che	emical reaction.		
27.	Catalysts are substance	s that u	p chemical reactions
	a	activation energy	
	b	_ reaction rate	
28.	Enzymes are	in living things	S.
29.	Disruptions in	can preve	ent enzymes from functioning.
30.	An enzyme's	allows only cert	ain reactants to bind to the enzyme.