Fundamentals of Anatomy and Physiology 4th Edition Rizzo Test Bank

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Name: Class: Date:

Chapter 02

True / False

1. An element is a substance whose atoms all contain the same number of neutrons.

a. True

b. False

ANSWER: False POINTS: 1

REFERENCES: Elements, Isotopes, Compounds

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 2/24/2015 12:55 AM DATE MODIFIED: 2/24/2015 12:56 AM

- 2. Isotopes are atoms of the same element that have different numbers of neutrons but the same number of protons.
 - a. True

b. False

ANSWER: True POINTS: 1

REFERENCES: Elements, Isotopes, Compounds

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 2/24/2015 12:56 AM DATE MODIFIED: 2/24/2015 12:57 AM

- 3. Atoms that gain electrons become negatively charged.
 - a. True
 - b. False

ANSWER: True POINTS: 1

REFERENCES: Bonds and Energy

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 2/24/2015 12:57 AM DATE MODIFIED: 2/24/2015 12:58 AM

- 4. The two purine nitrogen bases are adenine and guanine.
 - a. True
 - b. False

ANSWER: True POINTS: 1

REFERENCES: Bonds and Energy

QUESTION TYPE: True / False

HAS VARIABLES: False

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Chapter 02

DATE CREATED: 2/24/2015 12:58 AM DATE MODIFIED: 2/24/2015 1:03 AM

- 5. Temperature has no effect on diffusion rate.
 - a. True
 - b. False

ANSWER: False POINTS: 1

REFERENCES: Movement of Materials into and out of Cells

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 2/24/2015 1:04 AM DATE MODIFIED: 2/24/2015 1:05 AM

Multiple Choice

- 6. What are the smallest particles of an element?
 - a. atoms
 - b. molecules
 - c. compounds
 - d. cells

ANSWER: a POINTS: 1

REFERENCES: Atomic Structure QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 2/24/2015 1:05 AM DATE MODIFIED: 2/24/2015 1:07 AM

- 7. The compact central nucleus of an atom contains ____ and ____.
 - a. electrons; protons
 - b. electrons; neutrons
 - c. protons; neutrons
 - d. electrons; isotopes

ANSWER: c
POINTS: 1

REFERENCES: Atomic Structure QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 2/24/2015 1:07 AM DATE MODIFIED: 2/24/2015 1:09 AM

8. What element is found in all living matter?

Name:		Class:
Chapter 02		
a. nitrogen		
b. carbon		
c. lithium		
d. oxygen		
ANSWER:	b	
POINTS:	1	
REFERENCES:	Elements, Isotopes, Compounds	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
DATE CREATED:	2/24/2015 1:09 AM	
DATE MODIFIED:	2/24/2015 1:11 AM	
9. In an atom, on	rbit the nucleus.	
a. protons		
b. electrons		
c. neutrons		
d. isotopes		
ANSWER:	b	
POINTS:	1	
REFERENCES:	Atomic Structure	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
DATE CREATED:	2/24/2015 1:11 AM	
DATE MODIFIED:	2/24/2015 1:13 AM	
10. Atoms that gain _	become negatively charged.	
a. protons		
b. neutrons		
c. electrons		
d. isotopes		
ANSWER:	С	
POINTS:	1	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
DATE CREATED:	2/24/2015 1:16 AM	
DATE MODIFIED:	2/24/2015 1:17 AM	
11. What is formed w	hen two or more different elements co	ombine by sharing electrons?
a. proton		, , , , , , , , , , , , , , , , , , , ,
b. chemical		
c. ion		
d. compound		

ANSWER:

Date:____

Name:	Class:	Date:
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Chapter 02

POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 2/24/2015 1:18 AM DATE MODIFIED: 2/24/2015 1:20 AM

- 12. What is formed when an atom loses or gains an electron?
 - a. proton
 - b. chemical
 - c. ion
 - d. compound

ANSWER: c POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 2/24/2015 1:20 AM DATE MODIFIED: 2/24/2015 1:22 AM

- 13. What kind of bond is formed when one atom gains an electron and another atom loses an electron?
 - a. ionic
 - b. covalent
 - c. hydrogen
 - d. molecular

ANSWER: a POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 2/24/2015 1:22 AM DATE MODIFIED: 2/24/2015 1:25 AM

- 14. What kind of bond is formed when two atoms share electrons?
 - a. ionic
 - b. covalent
 - c. hydrogen
 - d. isotopic

ANSWER: b POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 2/24/2015 1:25 AM DATE MODIFIED: 2/24/2015 1:27 AM

15. Molecules containing which type of bond do not dissociate in water?

Name:	Class:
Chapter 02	
a. ionic	
b. covalent	
c. hydrogen	
d. isotopic	
ANSWER:	b
POINTS:	1
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False
DATE CREATED:	2/24/2015 1:28 AM
DATE MODIFIED:	2/24/2015 1:31 AM
16. Elements or mole a. covalent	cules contributing electrons during a reaction are called
b. electron donor	rs
c. electron accep	tors
d. electron carrie	rs
ANSWER:	b
POINTS:	1
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False
DATE CREATED:	2/24/2015 1:31 AM
DATE MODIFIED:	2/24/2015 1:34 AM
a. photosynthesis	
b. combination rec. synthesis	eaction
d. hydrolysis	
ANSWER:	d
POINTS:	1
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False
DATE CREATED:	2/24/2015 1:34 AM
DATE MODIFIED:	2/24/2015 1:37 AM
18. What is the unive	rsal solvent?
a. carbon	
b. urea	
c. hydrogen	
d. water	
ANSWER:	d

POINTS:

1

Date:__

Name:	(Class:
Chapter 02		
HAS VARIABLES:	False	
DATE CREATED:	2/24/2015 1:37 AM	
	2/24/2015 1:40 AM	
19 The liver converts	s toxic ammonia to a harmless substance	e called
a. urea	to a narmess substance	e canca
b. carbohydrate		
c. sodium		
d. mineral salt		
ANSWER:	а	
POINTS:	1	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	-	
DATE CREATED:	2/24/2015 1:41 AM	
	2/24/2015 1:43 AM	
20. The smallest carb	ohydrates are simple	
a. proteins	, , , , , , , , , , , , , , , , , , ,	
b. lipids		
c. amino acids		
d. sugars		
ANSWER:	d	
POINTS:	1	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
DATE CREATED:	2/24/2015 1:44 AM	
DATE MODIFIED:	2/24/2015 1:47 AM	
21. Starch, glycogen,	and cellulose are all examples of	
a. carbohydrates		
b. lipids		
c. proteins		
d. nucleotides		
ANSWER:	a	
POINTS:	1	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
DATE CREATED:	2/24/2015 1:47 AM	
DATE MODIFIED:	2/24/2015 1:51 AM	
	g blocks of proteins are	
a. triglycerides		
b. monosacchario	des	

Date:____

Name:	Clas	SS:	Date:
Chapter 02			
c. amino acids d. nucleotides ANSWER: POINTS: QUESTION TYPE: HAS VARIABLES:	•		
	2/24/2015 2:20 AM		
	2/24/2015 2:27 AM		
23. Protein catalysts i a. amino acids b. enzymes c. atoms d. nucleotides	n the body that increase the rate of chemica	al reactions are called	
ANSWER:	b		
POINTS:	1		
QUESTION TYPE:	Multiple Choice		
HAS VARIABLES:	False		
DATE CREATED:	2/24/2015 2:27 AM		
DATE MODIFIED:	2/24/2015 2:31 AM		
24. Which nucleotide a. guanine b. adenine c. thymine d. uracil	is found in RNA but not in DNA?		
ANSWER:	d		
POINTS:	1		
QUESTION TYPE:	•		
HAS VARIABLES:			
	2/24/2015 2:31 AM		
DATE MODIFIED:	2/24/2015 2:35 AM		
25. A(n) molecu	ule is a double-stranded helical chain made	up of nucleotides.	
b. RNA			
c. DNA			
d. lipid			
ANSWER:	С		
POINTS:	1		
REFERENCES:	•	าร	
QUESTION TYPE:	·		
HAS VARIABLES:	False		

Name:		Class:	Date:
Chapter 02			
DATE CREATED:	2/24/2015 2:39 AM		
DATE MODIFIED:	2/24/2015 2:43 AM		
a. peptide bondsb. ionic bondsc. hydrogen bon	ds	different amino acids to form a p	orotein are known as
d. electrolyte box			
ANSWER:	a		
POINTS:	1		
	Common Substances in	Living Systems	
QUESTION TYPE:	•		
HAS VARIABLES:			
	2/24/2015 2:43 AM		
DATE MODIFIED:	2/24/2015 2:45 AM		
27. When the solute of called a. hypotonic b. osmotic	concentration outside a red	plood cell equals the solute conce	entration inside the cell, the solution is
c. hypertonic			
d. isotonic			
ANSWER:	d		
POINTS:	1		
REFERENCES:	Movement of Materials	nto and out of Cells	
QUESTION TYPE:		The and out of Colle	
HAS VARIABLES:	·		
	2/24/2015 2:45 AM		
_	2/24/2015 2:46 AM		
a. shrinkb. not change	hat is placed in a hypotonic	solution will	
c. swell			
d. crenulate			
ANSWER:	C		
POINTS:	1		
REFERENCES:	Movement of Materials	nto and out of Cells	
QUESTION TYPE:	•		
HAS VARIABLES:			
	2/24/2015 2:47 AM		
DATE MODIFIED:	2/24/2015 2:48 AM		

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Chapter 02	
29. he type of transpo a. passive transpo b. diffusion c. osmosis d. active transpor	
ANSWER:	d
POINTS:	1
	Movement of Materials into and out of Cells
QUESTION TYPE:	
HAS VARIABLES:	•
_	2/24/2015 2:49 AM
	2/24/2015 2:49 AW 2/24/2015 2:50 AM
DATE MODIFIED.	2/24/2015 2.50 AIVI
30. A solution with a a. acid b. base c. ion d. solute	pH of 3 is called a(n)
ANSWER:	а
POINTS:	a 1
REFERENCES:	•
QUESTION TYPE:	
HAS VARIABLES:	•
	2/24/2015 2:50 AM
	2/24/2015 2:52 AM
DATE MODIFIED.	2/24/2013 2:32 AW
31. Distilled water ha a. acidic b. basic c. neutral d. ionic	s a pH of 7 and is therefore
ANSWER:	2
POINTS:	1
REFERENCES:	•
QUESTION TYPE:	•
HAS VARIABLES:	
	2/24/2015 2:52 AM
DATE MODIFIED:	2/24/2015 2:54 AM
32. What kind of bone a. hydrogen b. ionic	ds do the mineral salts form?

c. covalent

Date:____

Name:		Class:	Date:
Chapter 02			
d. isotopic			
ANSWER:	b		
POINTS:	1		
REFERENCES:	Bonds and Energy		
QUESTION TYPE:	Multiple Choice		
HAS VARIABLES:	False		
DATE CREATED:	2/24/2015 2:54 AM		
DATE MODIFIED:	2/24/2015 2:56 AM		
	-	nydrogen bonds betwee	en amino acids that cause the protein to coil
into helices or pleated	l sheets.		
a. secondary			
b. tertiary			
c. primary			
d. quaternary			
ANSWER:	a		
POINTS:	1	Customs	
REFERENCES:	•	Systems	
QUESTION TYPE:	•		
HAS VARIABLES:			
	2/24/2015 2:57 AM		
DATE MODIFIED:	2/24/2015 2:59 AM		
of one water molecul	emical bond holds water molecules e and the positive hydrogen atoms		bridge between the negative oxygen atom cule?
a. isotopic			
b. hydrogen			
c. ionic			
d. covalent			
ANSWER:	b		
POINTS:	1		
REFERENCES:	Bonds and Energy		
QUESTION TYPE:	•		
HAS VARIABLES:			
	2/24/2015 2:59 AM		
DATE MODIFIED:	2/24/2015 3:01 AM		
35. DNA and RNA a	re examples of		
a. proteins			
b. lipids			
c. nucleic acids			
d. carbohydrates			
ANSWER:	С		

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Chapter 02			
POINTS:	1		
REFERENCES:	Common Substances in Living S	ystems	
QUESTION TYPE:	· ·		
HAS VARIABLES:	False		
DATE CREATED:	2/24/2015 3:01 AM		
DATE MODIFIED:	2/24/2015 3:04 AM		
Completion			
36. Fats, phospholipio	ds, and steroids are all examples of _		
ANSWER:	lipids		
POINTS:	1		
REFERENCES:	Common Substances in Living S	ystems	
QUESTION TYPE:	•		
HAS VARIABLES:	False		
DATE CREATED:	2/24/2015 3:04 AM		
DATE MODIFIED:	2/24/2015 3:05 AM		
		nds, and the chemical	reactions that occur between elements
ANSWER:	own as chemistry		
POINTS:	1		
REFERENCES:	Introduction		
QUESTION TYPE:			
HAS VARIABLES:	•		
	2/24/2015 3:06 AM		
	2/26/2015 6:42 AM		
38. The most abundar	nt substance in living cells is		
ANSWER:	water	·	
POINTS:	1		
	Common Substances in Living S	vstems	
QUESTION TYPE:	•	,	
HAS VARIABLES:	·		
	2/24/2015 3:07 AM		
	2/24/2015 3:08 AM		
39. With regard to pH	I levels, ma	ntain homeostasis wi	thin cells.
ANSWER:	buffers		
POINTS:	1		
REFERENCES:	Acid Rain		
QUESTION TYPE:			
HAS VARIABLES:	-		

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Chapter 02

DATE MODIFIED: 2/24/2015 3:16 AM

40. Tomato juice has a pH of 4; therefore, it is considered a(n) ______.

ANSWER: acid POINTS: 1

REFERENCES: Acid Rain
QUESTION TYPE: Completion

HAS VARIABLES: False

DATE CREATED: 2/24/2015 3:16 AM DATE MODIFIED: 2/24/2015 3:18 AM

Matching

Match the description with the corresponding term.

a. acidb. basec. ATPd. diffusion

e. osmosis f. active transport

g. DNAh. electroni. protonj. ammonia

REFERENCES: Common Substances in Living Systems

Common Substances in Living Systems Movement of Materials into and out of Cells

Atomic Structure Atomic Structure Introduction Acid Rain

Movement of Materials into and out of Cells

Acid Rain

Movement of Materials into and out of Cells

QUESTION TYPE: Matching HAS VARIABLES: False

DATE CREATED: 2/24/2015 3:18 AM DATE MODIFIED: 2/24/2015 3:26 AM

41. genetic material ANSWER: g
POINTS: 1

42. nitrogen-containing waste

ANSWER: j
POINTS: 1

43. movement of water

ANSWER: e

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Name: Class: Date:

Chapter 02

44. negatively charged part of atom

ANSWER: h
POINTS: 1

45. positively charged part of atom

ANSWER: i

46. chemical fuel (energy currency of the cell)

ANSWER: c POINTS: 1

47. hydrogen ion producer

ANSWER: a POINTS: 1

48. movement of solute to area of lower concentration

ANSWER: d POINTS: 1

49. combines with hydrogen ions

ANSWER: b POINTS: 1

50. requires energy to move substances to area of higher concentration

ANSWER: f POINTS: 1