Chapter 1: Introduction to the Structural Units

TRUE/FALSE

1.	The pelvic cavity contains the organs of the reproductive and excretory system.
	ANS: T PTS: 1
2.	The thoracic cavity protects the heart and lungs.
	ANS: T PTS: 1
3.	The lungs are located inferior to the diaphragm.
	ANS: F Inferior refers to below and the lungs are above, or superior, to the diaphragm.
	PTS: 1
4.	The kidneys are located within the abdominal cavity.
	ANS: F The kidneys are located behind the abdominal cavity; also referred to as retroperitoneal, meaning behind the peritoneum.
	PTS: 1
5.	The midsagittal plane divides the body into front and back halves.
	ANS: F It divides the body into equal right and left halves.
	PTS: 1
6.	Caudal means "skull, or head, end" of the body.
	ANS: F This describes cranial; caudal means "tail end."
	PTS: 1
7.	The hand is proximal to the elbow.
	ANS: F The hand is distal to the elbow; proximal is closer to the trunk of the body, and distal is further from the trunk.
	PTS: 1
MUL'	TIPLE CHOICE

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1. The dorsal cavity contains the _____.

a.	heart and lungs
b.	major organs of digestion

c. structures of the nervous system

ANS: C

	Feedback
Α	These are in the thoracic cavity.
В	These are in the abdominopelvic cavity.
С	

PTS: 1

2. Lateral means _____.

a. near the beginning of a structure c. toward the midline b. near the front of the body

d. toward the side

ANS: D

	Feedback
Α	This is proximal.
В	This is ventral.
С	This is medial.
D	

PTS: 1

3. The midsagittal plane divides the body into _____.

a. anterior and posterior portions
b. cephalic and caudal halves
c. upper and lower sections
d. left and right halves

ANS: D

	Feedback
Α	This is the coronal (frontal) plane.
В	Cephalic and caudal refers to direction, not body planes.
С	This is the transverse plane.
D	

PTS: 1

4. The _____ surface of a structure is toward, or nearer, the midline and away from the side.

a. distal

c. medial

b. lateral

d. proximal

ANS: C

	Feedback
Α	This pertains to a distant part.
В	This is toward or nearer the side and away from the midline.
С	
D	This refers to nearness, or closeness.

PTS: 1

5.		plane divides the body into front and back portions.
		coronal c. transverse sagittal
		S: A
	AINS	5. A
	•	Feedback
	A B	divides the body into right and left parts
	С	divides the body into right and left parts divides the body into upper and lower parts
		divides the body into upper and lower parts
	PTS	: 1
6.	Whi	ch of the following is known as the study of microscopic one-celled organisms, multicelled
	_	nisms, plants, animals, and humans?
		biology c. physiology
	b. a	anatomy
	ANS	S: A
		Feedback
	Α	
	В	Anatomy is the study of the shape and structure of an organism's body and the
		relationship of one body part to another.
	C	Physiology is the study of the function of each body part and how the functions of the
		various body parts coordinate to form a complete living organism.
	PTS	: 1
7.	Whi	ch of the following conditions would occur on the anterior part of the body?
		injury to the bottom of the foot c. bruise on the back of the head
		ventral hernia
	ANIC	
	ANS	э: В
		Feedback
	Α	This is on a posterior, or dorsal, location.
	В	•
	С	This would be a posterior (dorsal) cranial injury.
	PTS	: 1
0	A aa	notab on the left thick would hast be described as
8.		ratch on the left thigh would best be described as deep d. external
		superficial e. b & d
		internal f. a & c
	ANS	o: E
		Feedback
	Α	This would involve an injury to an internal organ.
	В	This is correct, but so is external.
	C	This would involve an injury to an internal organ.
	D	This is correct, but so is superficial.

This is correct, but so is superficial.

Ε	
F	These would involve an injury to an internal organ.

PTS: 1

- 9. Which of the following sequences place the terms from the simplest to the most complex?
 - a. tissues, cells, organs, organ systems, human body
 - b. human body, organ system, organs, tissues, cells
 - c. cells, tissues, organs, organ system, human body
 - d. none are correct

ANS: C

	Feedback
Α	Cells are simpler and group to form tissues.
В	This ranks from most complex to simplest.
С	
D	There is a correct answer.

PTS: 1

- 10. Which of the following is the best description of *anabolism*?
 - a. functional activities of cells that result in growth, repair, energy release, use of food, and secretions
 - b. building up of complex materials from simpler ones such as food and oxygen
 - c. breaking down and changing of complex substances into simpler ones, with a release of energy and carbon dioxide

ANS: B

	Feedback
Α	This is metabolism.
В	
С	This is catabolism.

PTS: 1

- 11. In the metric system, which of the following is used to measure weights?
 - a. grams

c. liters

b. meters

d. milliliters

ANS: A

	Feedback
Α	
В	This measures lengths.
С	This measures volume.
D	This measures volume.

PTS: 1

- 12. Place the following prefixes in the order of smallest to largest.
 - a. micro, milli, centi

c. centi, milli, micro

b. milli, centi, micro

d. micro, centi, milli

	Feedback
Α	
В	Micro is smaller than milli and centi.
С	This is from largest to smallest.
D	Centi is larger than milli.

PTS: 1

13. The provider instructs the patient to take 1 gram of acetaminophen for their fever. The patient only has capsules marked as 325 mg. How many should the patient take?

a. 1 capsule

c. 3 capsules

b. 2 capsules

d. 4 capsules

ANS: C

	Feedback
Α	This would only be 0.325 grams and not enough.
В	This would only be 0.650 grams and not enough.
С	
D	This would be 1.3 grams and too much.

PTS: 1

MULTIPLE RESPONSE

1. Which of the following are cavities within the skull. Mark all that apply.

a. orbital cavity

c. oral cavity

b. nasal cavity

d. buccal cavity

ANS: A, B, C, D PTS: 1

2. Mark all that are true

a. 1 liter = 1,000 milliliters

b. 2.2 kilograms = 1 pound

e. 30 milliliters = 1 ounce

d. the prefix centi means 1/1000

c. 2.5 centimeters = 1 inch

ANS: A, C, E

b. 1 kilogram = 2.2 pounds

d. centi is 1/100; milli is 1/1000

PTS: 1

COMPLETION

 $1. \ \ \, \text{Any abnormal change in the structure or function which produces symptoms is considered a(n)}$

ANS: disease

PTS: 1

2.	A(n), or cross, section is a horizontal cut that divides the body into upper and lower parts.
	ANS: transverse
	PTS: 1
3.	The dorsal cavity contains the cavity and the cavity.
	ANS: cranial, spinal
	PTS: 1
4.	The divides the ventral cavity into two parts: the upper thoracic and the lower abdominopelvic cavities.
	ANS: diaphragm
	PTS: 1
5.	The naval is located in the middle or region.
	ANS: umbilical
	PTS: 1
6.	The stomach is located to the diaphragm.
	ANS: inferior
	PTS: 1
7.	The term is used to reference the ventral surface of the body.
	ANS: anterior
	PTS: 1
8.	The region superior to the left inguinal region is the region.
	ANS: left lumbar
	PTS: 1
9.	The pubic area can also be referred to as the lower, or, region.
	ANS: hypogastric
	PTS: 1
10.	The region inferior to the right lumbar region is the right inguinal region, or the region.

	ANS: right iliac
	PTS: 1
11.	The area superior to the right lumbar region is the region.
	ANS: right hypochondriac
	PTS: 1
12.	is the ability of the body to regulate its internal environment within narrow limits.
	ANS: Homeostasis
	PTS: 1
13.	The metric system is a decimal system based on the power of
	ANS: 10 ten
	PTS: 1
14.	One tablespoon of cough medicine equals milliliters of cough medicine.
	ANS: 15 fifteen
	PTS: 1
MAT	CHING
	You must make a notation on a patient's record. Match the correct anatomical terminology to the description of the location. a. pain in the back b. pain below the right ribs c. a cut in the lower part of the right arm d. heartburn e. stomach cramps f. right inguinal hernia
1. 2. 3. 4. 5.	proximal to wrist lumbar region epigastric area right hypochondriac area umbilical area

6. right iliac area

PTS: 1

PTS: 1

1. ANS: C

2. ANS: A

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3.	ANS:	D	PTS:	1	
4.	ANS:	В	PTS:	1	
5.	ANS:	E	PTS:	1	
6.	ANS:	F	PTS:	1	

Match the branch of anatomy with its description.

- a. gross anatomy d. comparative anatomy
- b. microscopic anatomy e. systematic anatomy
- c. developmental anatomy
- 7. study of the growth and development of an organism during its lifetime
- 8. study of large and easily observable structures of an organism
- 9. examples are dermatology, endocrinology, and neurology
- 10. study of similarities and differences between different animals
- 11. includes cytology and histology

7.	ANS:	C	PTS:	1
8.	ANS:	A	PTS:	1
9.	ANS:	E	PTS:	1
10.	ANS:	D	PTS:	1
11.	ANS:	В	PTS:	1

Match the life function with the applicable body system.

- a. movementb. ingestione. secretionf. excretion
- c. transport g. regulation (sensitivity)
- d. growth
- 12. digestive system
- 13. skeletal system
- 14. circulatory system
- 15. nervous system
- 16. endocrine system
- 17. muscle system
- 18. urinary system

18. ANS: F

12. ANS: B PTS: 1
13. ANS: D PTS: 1
14. ANS: C PTS: 1
15. ANS: G PTS: 1
16. ANS: E PTS: 1
17. ANS: A PTS: 1

PTS: 1