

## **Chapter 1: Introduction to the Structural Units**

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### **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

### **MULTIPLE CHOICE**

1. The dorsal cavity contains the \_\_\_\_\_.

- a. heart and lungs
- b. major organs of digestion
- c. structures of the nervous system

ANS: C

	Feedback
A	These are in the thoracic cavity.
B	These are in the abdominopelvic cavity.
C	

PTS: 1

2. Lateral means \_\_\_\_.
- a. near the beginning of a structure
  - b. near the front of the body
  - c. toward the midline
  - d. toward the side

ANS: D

	Feedback
A	This is proximal.
B	This is ventral.
C	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
A	This is the coronal (frontal) plane.
B	Cephalic and caudal refers to direction, not body planes.
C	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
  - b. lateral
  - c. medial
  - d. proximal

ANS: C

	Feedback
A	This pertains to a distant part.
B	This is toward or nearer the side and away from the midline.
C	
D	This refers to nearness, or closeness.

PTS: 1

5. The \_\_\_\_\_ plane divides the body into front and back portions.
- coronal
  - sagittal
  - transverse

ANS: A

	Feedback
A	
B	divides the body into right and left parts
C	divides the body into upper and lower parts

PTS: 1

6. Which of the following is known as the study of microscopic one-celled organisms, multicelled organisms, plants, animals, and humans?
- biology
  - anatomy
  - physiology

ANS: A

	Feedback
A	
B	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. Which of the following conditions would occur on the anterior part of the body?
- injury to the bottom of the foot
  - ventral hernia
  - bruise on the back of the head

ANS: B

	Feedback
A	This is on a posterior, or dorsal, location.
B	
C	This would be a posterior (dorsal) cranial injury.

PTS: 1

8. A scratch on the left thigh would best be described as \_\_\_\_\_.
- deep
  - superficial
  - internal
  - external
  - b & d
  - a & c

ANS: E

	Feedback
A	This would involve an injury to an internal organ.
B	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.

<b>E</b>	
<b>F</b>	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?
- tissues, cells, organs, organ systems, human body
  - human body, organ system, organs, tissues, cells
  - cells, tissues, organs, organ system, human body
  - none are correct

ANS: C

	<b>Feedback</b>
<b>A</b>	Cells are simpler and group to form tissues.
<b>B</b>	This ranks from most complex to simplest.
<b>C</b>	
<b>D</b>	There is a correct answer.

PTS: 1

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

ANS: B

	<b>Feedback</b>
<b>A</b>	This is metabolism.
<b>B</b>	
<b>C</b>	This is catabolism.

PTS: 1

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

ANS: A

	<b>Feedback</b>
<b>A</b>	
<b>B</b>	This measures lengths.
<b>C</b>	This measures volume.
<b>D</b>	This measures volume.

PTS: 1

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

ANS: A

	Feedback
A	
B	Micro is smaller than milli and centi.
C	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?
- 1 capsule
  - 2 capsules
  - 3 capsules
  - 4 capsules

ANS: C

	Feedback
A	This would only be 0.325 grams and not enough.
B	This would only be 0.650 grams and not enough.
C	
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.
- orbital cavity
  - nasal cavity
  - oral cavity
  - buccal cavity

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

2. Mark all that are true
- 1 liter = 1,000 milliliters
  - 2.2 kilograms = 1 pound
  - 2.5 centimeters = 1 inch
  - the prefix centi means 1/1000
  - 30 milliliters = 1 ounce

ANS: A, C, E

- 1 kilogram = 2.2 pounds
- centi is 1/100; milli is 1/1000

PTS: 1

## COMPLETION

1. 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

## MATCHING

*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. proximal to wrist
- 2. lumbar region
- 3. epigastric area
- 4. right hypochondriac area
- 5. umbilical area
- 6. right iliac area

1. ANS: C PTS: 1

2. ANS: A PTS: 1

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

*Match the branch of anatomy with its description.*

- a. gross anatomy
  - b. microscopic anatomy
  - c. developmental anatomy
  - d. comparative anatomy
  - e. systematic 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: B PTS: 1

*Match the life function with the applicable body system.*

- a. movement
  - b. ingestion
  - c. transport
  - d. growth
  - e. secretion
  - f. excretion
  - g. regulation (sensitivity)
- 12. digestive system
  - 13. skeletal system
  - 14. circulatory system
  - 15. nervous system
  - 16. endocrine system
  - 17. muscle system
  - 18. urinary system

- 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
- 18. ANS: F PTS: 1