

TEST BANK

Human Anatomy and Physiology

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11th Edition

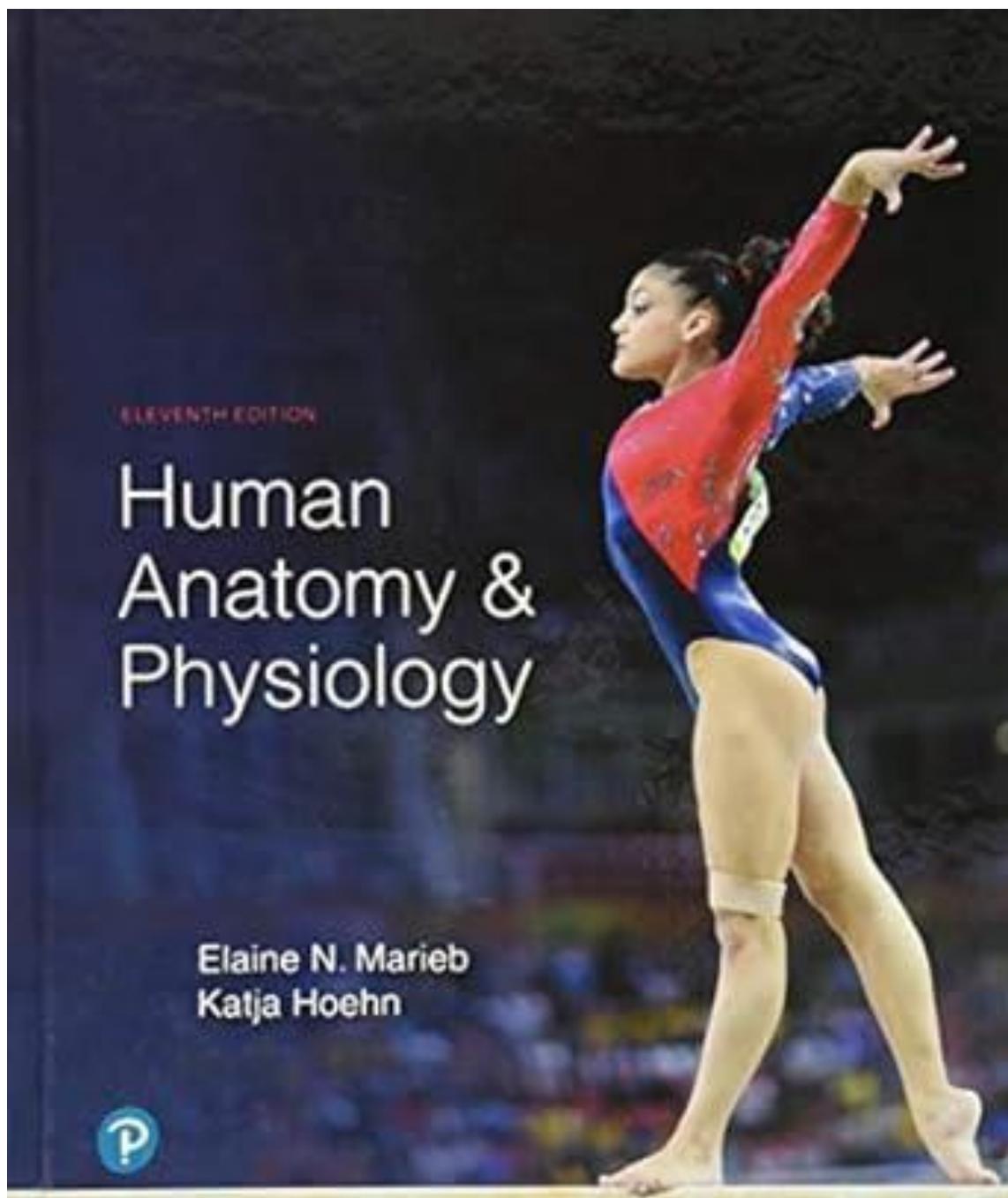


Table of Contents

Unit 1. Organization of the Body

- 1 The Human Body: An Orientation
- 2 Chemistry Comes Alive
- 3 Cells: The Living Units
- 4 Tissue: The Living Fabric

Unit 2. Covering, Support, and Movement of the Body

- 5 The Integumentary System
- 6 Bones and Skeletal Tissue
- 7 The Skeleton
- 8 Joints
- 9 Muscles and Muscle Tissue
- 10 The Muscular System

Unit 3. Regulation and Integration of the Body

- 11 Fundamentals of the Nervous System and Nervous Tissue
- 12 The Central Nervous System
- 13 The Peripheral Nervous System and Reflex Activity
- 14 The Autonomic Nervous System
- 15 The Special Senses
- 16 The Endocrine System

Unit 4. Maintenance of the Body

- 17 Blood
- 18 The Cardiovascular System: The Heart
- 19 The Cardiovascular System: Blood Vessels
- 20 The Lymphatic System and Lymphoid Organs and Tissues
- 21 The Immune System: Innate and Adaptive Body Defenses
- 22 The Respiratory System
- 23 The Digestive System

24 Nutrition, Metabolism, and Body Temperature Regulation

- 25 The Urinary System
- 26 Fluid, Electrolyte, and Acid-Base Balance

Unit 5. Continuity

- 27 The Reproductive System
- 28 Pregnancy and Human Development
- 29 Heredity

Exam

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) You are asked to draw blood from the median cubital vein. You will search for this vein in the _____ 1) _____
- A) anterior side of the elbow
B) hand
C) proximal arm
D) lateral side of the foot
- Answer: A
Diff: 0 Type: MC

- 2) You are asked to take a person's heart rate at the popliteal pulse point. You will look for this pulse _____ 2) _____
- A) at the posterior side of the wrist
B) on the posterior side of the knee
C) on the palmar side of the hand
D) in the distal end of the lower leg
- Answer: B
Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 3) The term that describes the neck region is _____ 3) _____
- Answer: cervical
Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 4) In which quadrant of the abdominopelvic cavity is the stomach located? _____ 4) _____
- A) left upper quadrant
B) left lower quadrant
C) right lower quadrant
D) right upper quadrant
- Answer: A
Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 5) What type of homeostatic feedback reflex is the withdrawal reflex? _____ 5) _____
- Answer: negative
Diff: 0 Type: SA
- 6) Describe the opposing ways that the muscular system and integumentary system act as _____ 6) _____
- effectors in the regulation of body temperature.
- Answer: The integument cools the body through sweat while the muscular system warms the body by shivering.
Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 7) The parietal pleura would represent a serous membrane _____. 7) _____
A) lining the thoracic cavity B) covering the heart
C) lining the abdominal cavity D) covering individual lungs

Answer: A

Diff: 0 Type: MC

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following regional terms and common terms:

- 8) Buttock. A) Gluteal 8) _____

Answer: A

Diff: 0 Type: MA

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 9) Why is anatomical terminology necessary? 9) _____

Answer: Anatomical terms are precise words that have limited usage, which prevents confusion when describing the location of body parts.

Diff: 0 Type: SA

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following regional terms and common terms:

- 10) Knee (anterior aspect). A) Patellar 10) _____

Answer: A

Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 11) Select the most correct statement. 11) _____
A) The endocrine system is not a true structural organ system.
B) The immune system is closely associated with the lymphatic system.
C) Organ systems can be composed of cells or tissues, but not both.
D) Organ systems operate independently of each other to maintain life.

Answer: B

Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 12) Without some sort of negative feedback mechanism, it would be impossible to keep our body chemistry in balance. 12) _____

Answer: True False

Diff: 0 Type: TF

- 13) Digital Subtraction Angiography (DSA) imaging is most useful in discovering obstructed blood supplies in organs and tissues. 13) _____

Answer: True False

Diff: 0 Type: TF

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

14) What is the function of the serous membranes?

14) _____

Answer: They act to reduce friction and allow the organs to slide across cavity walls.

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

15) Anatomical position is important because _____.

15) _____

- A) it provides the greatest circulation to the extremities
- B) it allows diagrams within textbooks to display a greater surface area of the body with one simple diagram
- C) it allows a common point of reference for body position to help communicate anatomical relationships
- D) it is the position most comfortable to hospital patients

Answer: C

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

16) Can lungs carry out excretory functions? Explain your answer.

16) _____

Answer: Yes, carbon dioxide is a metabolic waste the lungs excrete.

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

17) One of the functional characteristics of life is excitability or responsiveness. This refers to _____.

17) _____

- A) sensing changes in the environment and then reacting or responding to them
- B) the necessity for all organisms to reproduce
- C) indigestible food residues stimulating the excretory system
- D) the nervous system causing all living things to sometimes experience anger

Answer: A

Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

18) Embryology concerns the structural changes that occur in an individual from conception through old age.

18) _____

Answer: True False

Diff: 0 Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

19) Expiration (breathing out) is how the body removes excessive carbon dioxide from the blood. This is an example of _____.

19) _____

- A) metabolism
- B) responsiveness
- C) excretion of metabolic waste
- D) maintaining boundaries

Answer: C

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

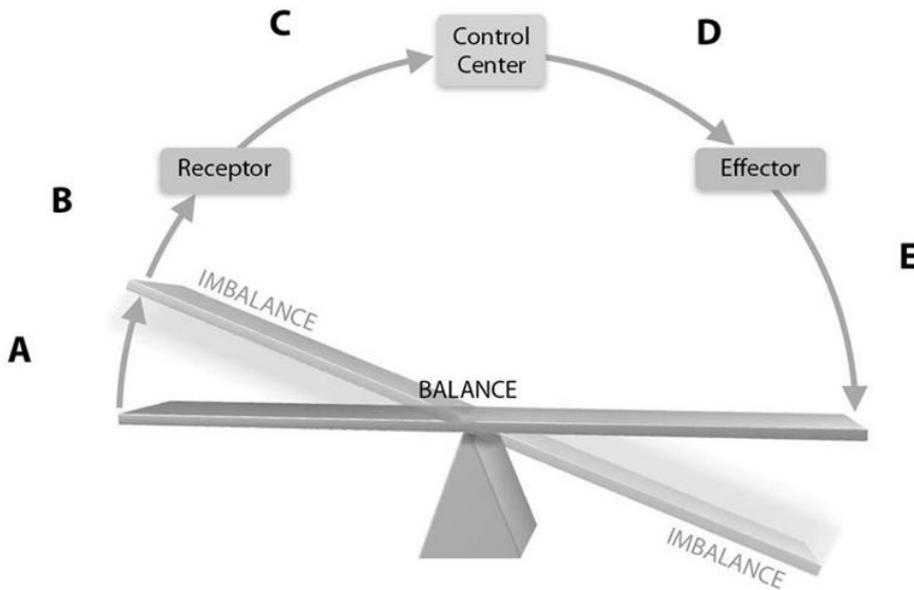


Figure 1.2

Using Figure 1.2, match the following descriptions to the most appropriate letter on the diagram:

- 20) Information about body temperature is sent through afferent pathways to the brain. 20) _____
 Answer: C
 Diff: 0 Type: SA

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 21) The elbow is proximal to the shoulder. 21) _____
 Answer: True False
 Diff: 0 Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 22) Generally, what is the result of the negative feedback process? 22) _____
 A) to regulate excretion via the kidneys B) to maintain homeostasis
 C) to control body movement D) to keep the body's blood sugar level high
 Answer: B
 Diff: 0 Type: MC

- 23) The term pollex refers to the _____. 23) _____
 A) thumb B) calf C) fingers D) great toe
 Answer: A
 Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 24) What is the single most abundant chemical substance in the body? 24) _____
 Answer: water
 Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 25) Anabolic reactions are chemical reactions of the body that build things, make them bigger or more complex. Catabolic reactions break things down making them smaller or less complex. If the rate of anabolic reaction in the body is much faster than the rate of catabolic reactions, which of the following necessary life function will be accomplished? 25) _____

A) growth B) movement C) responsiveness D) digestion

Answer: A

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 26) The integumentary system helps to maintain a boundary between the internal and external environment. Give an example of something that is prevented entry to the body and an example of something prevented from escaping the body by the integumentary system. 26) _____

Answer: The integument prevents entry of pathogens (germs, viruses, bacteria) OR harmful chemicals. The integumentary system prevents water (body fluid) loss.

Diff: 0 Type: SA

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 27) A tissue consists of groups of similar cells that have a common function. 27) _____

Answer: True False

Diff: 0 Type: TF

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following cavities and organs:

- 28) Stomach. A) Abdominal 28) _____

Answer: A

Diff: 0 Type: MA

Match the regional/directional terms and examples:

- 29) The stomach is _____ to the spine. A) Anterior 29) _____

Answer: A

Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 30) Which of the following statements is the most correct regarding homeostatic imbalance? 30) _____

A) Positive feedback mechanisms are overwhelmed.
B) It is considered the cause of most diseases.
C) Negative feedback mechanisms are functioning normally.
D) The internal environment is becoming more stable.

Answer: B

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

31) The heart is _____ to the lungs.

31) _____

Answer: medial
Diff: 0 Type: SA

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the regional/directional terms and examples:

32) The lungs are _____ to the heart.

A) Lateral

32) _____

Answer: A
Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

33) The anatomical position is characterized by all of the following EXCEPT _____.

33) _____

A) thumbs pointed laterally

B) palms turned posteriorly

C) body erect

D) arms at sides

Answer: B
Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

34) Which cavity contains the bladder, some reproductive organs, and the rectum?

34) _____

Answer: pelvic
Diff: 0 Type: SA

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the regional/directional terms and examples:

35) The fingers are _____ to the wrist.

A) Distal

35) _____

Answer: A
Diff: 0 Type: MA

Match the following systems to their functions:

36) Prevents water loss, entry of germs into the body and synthesizes vitamin D.

A) Integumentary

36) _____

Answer: A
Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

37) Homeostasis is the condition in which the body maintains _____. 37) _____

- A) the lowest possible energy usage
- B) a static state with no deviation from preset points
- C) a dynamic state within an unlimited range, depending on circumstances
- D) a relatively stable internal environment, within limits

Answer: D

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

38) What can happen when the usual negative feedback mechanisms are overwhelmed and destructive positive feedback mechanisms take over? 38) _____

Answer: Homeostatic imbalances increase our risk for disease processes and produce the changes we associate with aging.

Diff: 0 Type: SA

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

39) The nurse charted: "Patient has an open wound located on lateral aspect of leg." Describe where the wound is located.

Answer: The wound is located on the outer side of the leg, the peroneal or fibular area.

Diff: 0 Type: ES

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following examples of feedback mechanisms:

40) Used for blood clotting. A) Positive feedback 40) _____

Answer: A

Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

41) The body cavities that protect the nervous system are located in the _____ cavity. 41) _____

- A) cranial
- B) thoracic
- C) ventral
- D) vertebral
- E) dorsal

Answer: E

Diff: 0 Type: MC

42) Which one of the following systems responds fastest to environmental stimuli? 42) _____

- A) nervous
- B) immune
- C) muscular
- D) lymphatic

Answer: A

Diff: 0 Type: MC

43) The coxal joint is most likely found in the _____ region of the body. 43) _____

- A) hip
- B) groin
- C) hand
- D) foot

Answer: A

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

44) Which body system would be most affected by a lower than normal atmospheric pressure? 44) _____

Answer: respiratory system

Diff: 0 Type: SA

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

45) Lungs carry out an excretory function. 45) _____

Answer: True False

Diff: 0 Type: TF

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

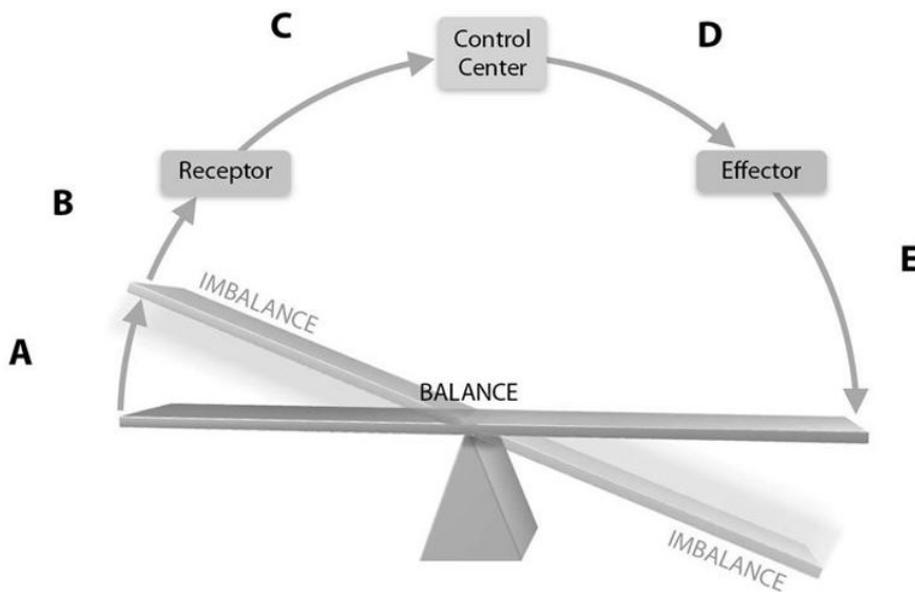


Figure 1.2

Using Figure 1.2, match the following descriptions to the most appropriate letter on the diagram:

46) Free nerve endings in the skin detect changes in skin temperature (getting warmer). 46) _____

Answer: B

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

47) In which body cavities are the lungs located? 47) _____

A) mediastinal, thoracic, and ventral

B) pericardial, ventral, and thoracic

C) pleural, dorsal, and abdominal

D) pleural, ventral, and thoracic

Answer: D

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

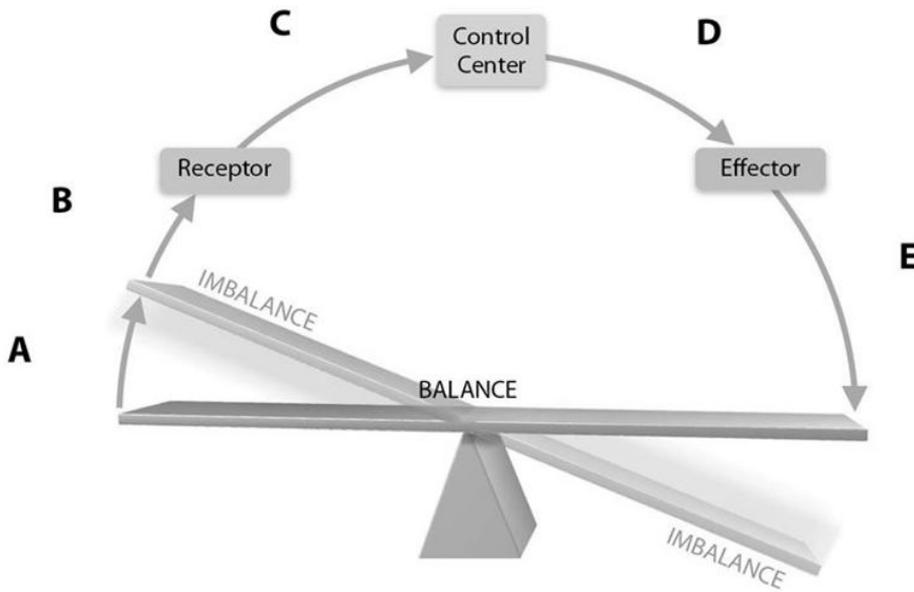


Figure 1.2

Using Figure 1.2, match the following descriptions to the most appropriate letter on the diagram:

48) Appropriate response information is sent through efferent pathways.

48) _____

Answer: D

Diff: 0 Type: SA

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following systems to their functions:

49) Delivers oxygen and nutrients to the tissues.

A) Cardiovascular

49) _____

Answer: A

Diff: 0 Type: MA

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

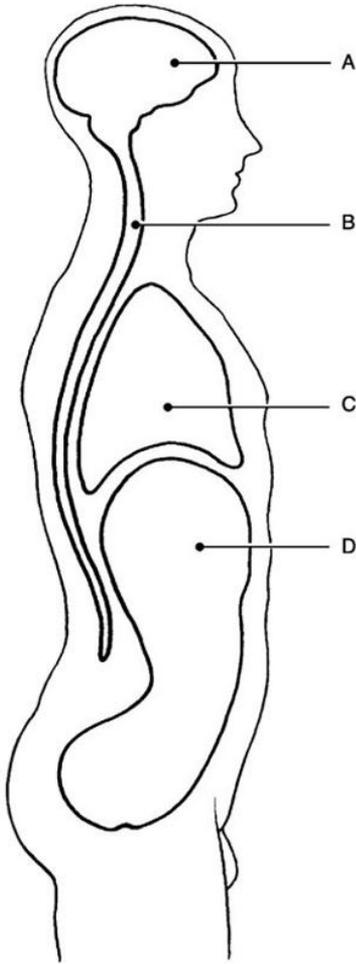


Figure 1.1

Using Figure 1.1, match the following cavities:

50) Cranial cavity.

50) _____

Answer: A

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

51) What is a vertical section through the body, dividing it into anterior and posterior regions called?

51) _____

A) sagittal

B) frontal

C) median

D) transverse

Answer: B

Diff: 0 Type: MC

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following systems and organs:

52) Adrenal glands, pancreas, pituitary.

A) Endocrine

52) _____

Answer: A

Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

53) Which of the following is the best explanation for why cells are considered the smallest units of living things.

53) _____

A) Cells cannot be seen with the naked eye and are considered microscopic.

B) Cells are highly ordered and complex.

C) Cells are the simplest structure to fit all of the characteristics necessary to be considered alive.

D) Cells have the ability to reproduce identical copies of themselves in a process called mitosis.

Answer: C

Diff: 0 Type: MC

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following systems to their functions:

54) Controls the body with chemical molecules called hormones.

A) Endocrine

54) _____

Answer: A

Diff: 0 Type: MA

Match the following systems to their functions:

55) Responds to environmental changes by transmitting appropriate electrical impulses.

A) Nervous

55) _____

Answer: A

Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

56) Prevention of water loss is a necessary function for life that would best fit in the category of _____.

56) _____

A) excretion

B) maintaining boundaries

C) responsiveness

D) metabolism

Answer: B

Diff: 0 Type: MC

57) What is a vertical section through the body, dividing it into left and right, called?

57) _____

A) sagittal

B) transverse

C) frontal

D) regional

Answer: A

Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

58) It is important for any organism to maintain its boundaries, so that its internal environment remains distinct from the external environment surrounding it. 58) _____

Answer: True False
Diff: 0 Type: TF

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

59) The term that describes the back of the elbow is _____. 59) _____

Answer: olecranal
Diff: 0 Type: SA

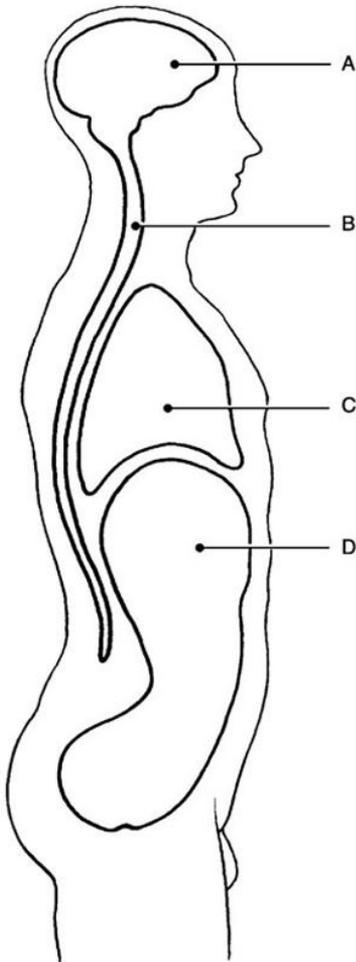


Figure 1.1

Using Figure 1.1, match the following cavities:

60) Thoracic cavity. 60) _____

Answer: C
Diff: 0 Type: SA

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following regional terms and common terms:

61) Arm.

A) Brachial

61) _____

Answer: A

Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

62) Which of the following are survival needs of the body?

62) _____

- A) nutrients, water, atmospheric pressure, and oxygen
- B) nutrients, water, movement, and reproduction
- C) water, atmospheric pressure, growth, and movement
- D) nutrients, water, growth, and reproduction

Answer: A

Diff: 0 Type: MC

63) Which of the following describes a parasagittal plane?

63) _____

- A) a transverse cut just above the knees
- B) any sagittal plane except in the midline
- C) two cuts dividing the body into left and right halves
- D) any cut dividing the body into anterior and posterior portions

Answer: B

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

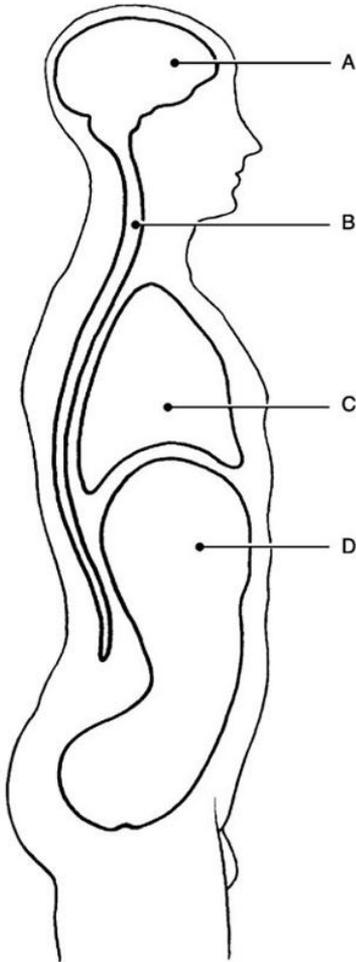


Figure 1.1

Using Figure 1.1, match the following cavities:

64) Abdominal cavity.

64) _____

Answer: D

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

65) Place the following in correct sequence from simplest to most complex:

65) _____

1. molecules
2. atoms
3. tissues
4. cells
5. organs

A) 1-2-4-3-5

B) 1-2-3-4-5

C) 2-1-3-4-5

D) 2-1-4-3-5

Answer: D

Diff: 0 Type: MC

- 66) The thoracic cavity contains the _____. It is found _____ to the vertebral cavity. 66) _____
A) stomach and liver; superficial B) kidneys and spleen; deep
C) heart and lungs; anterior D) digestive viscera; inferior
Answer: C
Diff: 0 Type: MC

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following cavities and organs:

- 67) Brain. A) Cranial 67) _____
Answer: A
Diff: 0 Type: MA

Match the following systems and organs:

- 68) Arteries, veins, heart. A) Cardiovascular 68) _____
Answer: A
Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 69) Choose the anatomical topic and definition that is NOT correctly matched. 69) _____
A) Gross anatomy: study of structures visible to the eye.
B) Embryology: study of the changes in an individual from conception to birth.
C) Microscopic anatomy: study of structures too small to be seen by the naked eye.
D) Cytology: study of the structures in a particular region.
Answer: D
Diff: 0 Type: MC

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

- 70) Judy is 16 years old and collapses on the gym floor with severe pain in her chest wall every time she takes a deep breath. She is rushed by ambulance to the emergency room. Judy is diagnosed with pleurisy and is given an anti-inflammatory drug through the intravenous route. Explain why an anti-inflammatory drug would be prescribed for someone with pleurisy.
Answer: The pleural space contains a small amount of fluid that acts as a lubricant, allowing the pleurae to slide smoothly over each other as the lungs expand and contract. Pleurisy is an inflammation of the pleura around the lungs. When inflammation occurs in the pleural space, the pleurae do not slide smoothly and this causes severe pain that is more directly transmitted by the parietal than the visceral pleura.
Diff: 0 Type: ES

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 71) One of the descriptions below is from the perspective of physiological study, the rest are from an anatomical perspective. Select the description below that comes from physiological perspective. 71) _____
- A) The pancreas lies deep to the stomach within the abdominal cavity.
 - B) The chambers of the heart and blood vessels leading to and from the heart are separated by valves composed of fibrous connective tissue.
 - C) The skull is formed by 22 facial and cranial bones.
 - D) The contraction of smooth muscle in blood vessels (vasoconstriction) can reduce the flow of blood through the vessel.

Answer: D

Diff: 0 Type: MC

- 72) It is wise to study anatomy alongside with physiology because _____. 72) _____
- A) to understand anatomy requires complete understanding of physiology
 - B) anatomy and physiology are practically the same thing
 - C) physiology is only explainable in terms of the underlying anatomy
 - D) it makes for more efficient use of students' and teachers' time

Answer: C

Diff: 0 Type: MC

- 73) A good example of a positive feedback mechanism would be _____. 73) _____
- A) regulating glucose levels in the blood
 - B) blood calcium level regulation
 - C) body temperature regulation
 - D) enhancement of labor contractions

Answer: D

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 74) What is a dynamic equilibrium of your internal environment termed? 74) _____

Answer: homeostasis

Diff: 0 Type: SA

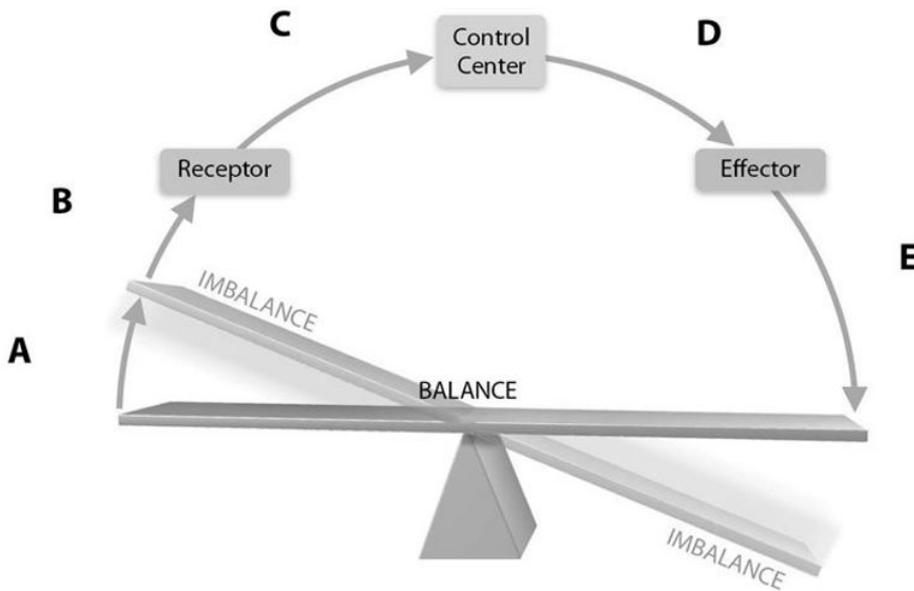


Figure 1.2

Using Figure 1.2, match the following descriptions to the most appropriate letter on the diagram:

75) A change in the temperature of the external environment (getting warmer).

75) _____

Answer: A

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

76) Positive feedback differs from negative feedback because _____.

76) _____

- A) positive feedback is generally beneficial while negative feedback is typically harmful
- B) positive feedback provides moment-to-moment wellbeing while negative feedback causes a cascade effect
- C) positive feedback tends to enhance the triggering stimulus while negative feedback tends to return the body to a homeostatic balance or "ideal" level
- D) positive feedback is critical to health while negative feedback serves only to alert us to potential health threats

Answer: C

Diff: 0 Type: MC

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following systems and organs:

77) Kidneys, bladder, ureters.

A) Urinary

77) _____

Answer: A

Diff: 0 Type: MA

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

78) Why are the abdominopelvic cavity organs the most vulnerable to blunt deceleration in an automobile accident with seat belts? 78) _____

Answer: The walls of the abdominal cavity are formed only by trunk muscles and are not reinforced by bone. The pelvic organs receive a somewhat greater degree of protection from the bony pelvis.

Diff: 0 Type: SA

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following cavities and organs:

79) Heart. A) Thoracic 79) _____

Answer: A

Diff: 0 Type: MA

Match the following systems to their functions:

80) Provides the force to move bones about their joints. A) Muscular 80) _____

Answer: A

Diff: 0 Type: MA

Match the following systems to their functions:

81) Picks up and cleans excess fluid from tissues. A) Lymphatic 81) _____

Answer: A

Diff: 0 Type: MA

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

82) The right hypochondriac region contains the majority of the stomach. 82) _____

Answer: True False

Diff: 0 Type: TF

83) A major function of serous membranes is to decrease friction. 83) _____

Answer: True False

Diff: 0 Type: TF

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

84) Describe the overlap in function between the muscular system and skeletal system. In other words, describe how they work together. 84) _____

Answer: The skeleton provides the ridged frame work (levers) for muscles to attach to. Muscles provide the force to move the bones about the joints.

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

85) The dorsal body cavity is the site of which of the following?

- A) liver B) lungs C) intestines D) brain

85) _____

Answer: D

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

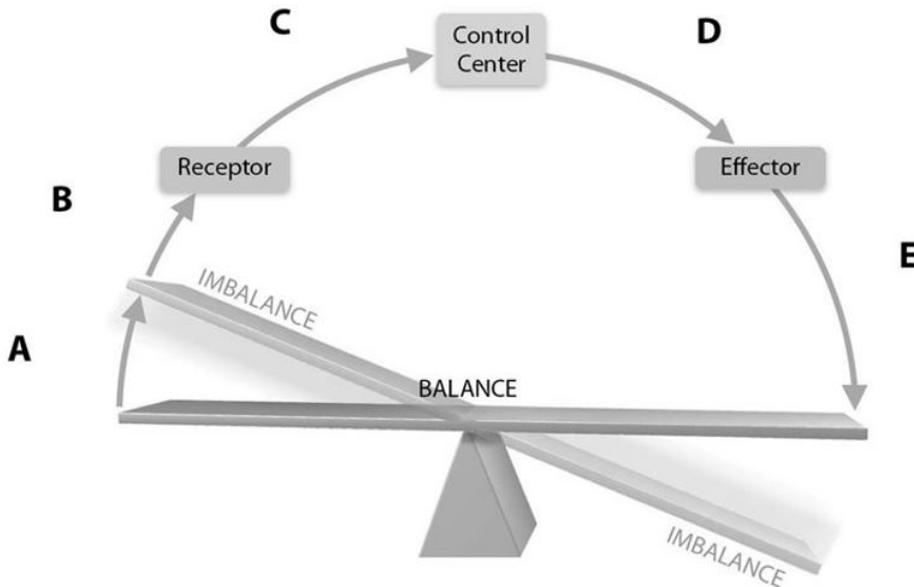


Figure 1.2

Using Figure 1.2, match the following descriptions to the most appropriate letter on the diagram:

86) Sweat glands are stimulated as well as blood being distributed to the skin to allow cooling of the body to return the body's temperature to a physiological level.

86) _____

Answer: E

Diff: 0 Type: SA

87) What is the action of all of the negative feedback mechanisms of the body?

87) _____

Answer: They provide a mechanism to maintain levels of substances within physiological limits.

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

88) The study of anatomy and physiology assumes and describes a healthy body. Select the description below that does NOT explain why this approach is useful.

88) _____

- A) A healthy body establishes what "normal" is.
B) Study of a healthy body provides a foundation for a more complete understanding of all human bodies.
C) Study of a healthy body is less intimidating and more familiar to new students.
D) A healthy body provides a common standard to compare to.

Answer: C

Diff: 0 Type: MC

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following regional terms and common terms:

89) Head.

A) Cephalic

89) _____

Answer: A

Diff: 0 Type: MA

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

90) Which feedback mechanism causes the variable to deviate further and further from its original value or range?

90) _____

Answer: positive feedback

Diff: 0 Type: SA

91) What broad term covers all chemical reactions that occur within the body cells?

91) _____

Answer: metabolism

Diff: 0 Type: SA

92) Why must a normal body temperature be maintained in order for chemical reactions to be continued at life-sustaining rates?

92) _____

Answer: If body temperature is too low, chemical reactions slow and eventually stop. If body temperature is too high, chemical reactions speed up and body proteins lose their normal shape, resulting in loss of function.

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

93) Histology would be best defined as a study of _____.

93) _____

A) tissues

B) the gross structures of the body

C) cell chemistry

D) cells

Answer: A

Diff: 0 Type: MC

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following systems to their functions:

94) Provides a ridged framework to support the body and stores minerals.

A) Skeletal

94) _____

Answer: A

Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 95) Choose the following statement that is NOT completely correct regarding serous membranes. 95) _____
- A) Visceral pericardium covers the outer surface of the heart, and parietal pericardium lines the internal walls of the heart.
 - B) Serous membranes secrete a watery lubricating fluid.
 - C) Serous membranes are divided into parietal and visceral membranes with a virtual space between the two.
 - D) Serosa are very thin, double-layered structures.

Answer: A

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 96) What does the "principle of complementarity of structures and function" mean? 96) _____
- Answer: Structure is specific to meet the needs of it's function.

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 97) You are told to take an axillary temperature on a small child. You will place the thermometer _____ 97) _____
- A) in the armpit
 - B) under the tongue
 - C) in the rectum
 - D) on the forehead

Answer: A

Diff: 0 Type: MC

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the regional/directional terms and examples:

- 98) The upper arm is _____ to the forearm. A) Proximal 98) _____

Answer: A

Diff: 0 Type: MA

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 99) Positive feedback mechanisms tend to enhance the original stimulus so that the response is accelerated. 99) _____

Answer: True False

Diff: 0 Type: TF

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following cavities and organs:

- 100) Lungs. A) Thoracic 100) _____

Answer: A

Diff: 0 Type: MA

Match the following systems and organs:

101) Esophagus, large intestine, rectum.

A) Digestive

101) _____

Answer: A

Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

102) When a baby suckles at its mother's breast the stimulus at the breast is sent to the mother's brain (a region called the hypothalamus). The brain responds by releasing hormones to stimulate the production and the ejection of milk from the breast. This helps the newborn to receive nourishment and encourages more suckling. This example is best described as a _____.

102) _____

A) necessary life function

B) positive feedback

C) negative feedback

D) loss of homeostasis

Answer: B

Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

103) Responsiveness or irritability is the ability to sense changes in the environment and then respond to them.

103) _____

Answer: True False

Diff: 0 Type: TF

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

104) Similar cells that have a common function are called _____.

104) _____

Answer: tissues

Diff: 0 Type: SA

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following systems to their functions:

105) A functional organ system which provides a means of protecting us from foreign invaders.

A) Immune

105) _____

Answer: A

Diff: 0 Type: MA

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

106) What is the pathway between the receptor and the control center in the reflex pathway called?

106) _____

Answer: afferent pathway

Diff: 0 Type: SA

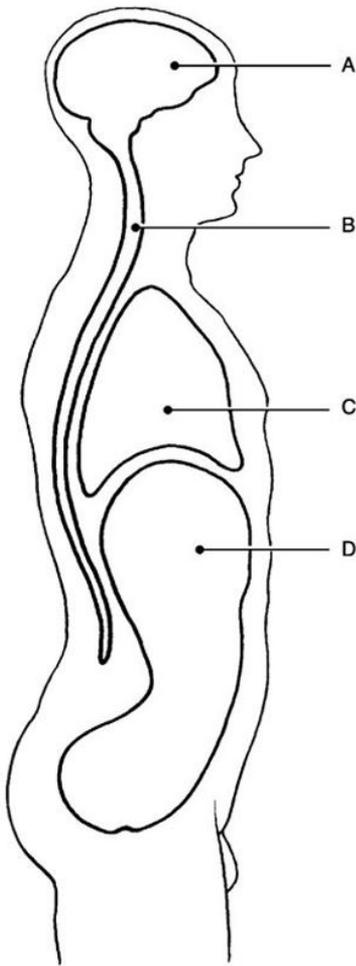


Figure 1.1

Using Figure 1.1, match the following cavities:

107) Vertebral cavity.

107) _____

Answer: B

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

108) Which of the following imaging devices would best localize a tumor in a person's brain?

108) _____

A) MRI

B) PET

C) X-ray

D) DSA

Answer: A

Diff: 0 Type: MC

109) The study of large body structures, visible to the naked eye, such as the heart is called _____ anatomy.

109) _____

A) gross

B) microscopic

C) developmental

D) systemic

Answer: A

Diff: 0 Type: MC

110) Which of the following organs or structures would be found in the left iliac region? 110) _____
A) stomach B) appendix C) liver D) intestines

Answer: D
Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

111) _____ is explained by chemical and physical principles and is concerned with the 111) _____
function of specific organs or organic systems.

Answer: Physiology
Diff: 0 Type: SA

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following examples of feedback mechanisms:

112) Used for childbirth. A) Positive feedback 112) _____

Answer: A
Diff: 0 Type: MA

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

113) Sara is giving birth to her first child. She is concerned that her labor is taking longer than she thought it would. Why does giving birth usually take time for the contractions to proceed to the point when the child is born?

Answer: Childbirth is based on the increasing levels of oxytocin that cause the uterine contractions. Under positive feedback, oxytocin levels increase which results in increasing strong contractions by the upper uterus that will ultimately result in the birth of the child. But this positive feedback needs numerous contraction cycles to overcome the muscular resistance to stretching in the lower uterus in order for the head to pass.

Diff: 0 Type: ES

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following systems and organs:

114) Trachea, bronchi, alveoli. A) Respiratory 114) _____

Answer: A
Diff: 0 Type: MA

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

115) Describe the overlap in function between the cardiovascular system and respiratory 115) _____
system. In other words, describe how they work together.

Answer: The blood is provided a consistent supply of oxygen from the lungs while the circulatory system delivers carbon dioxide which will be removed from the body by the respiratory system.

Diff: 0 Type: SA

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following examples of feedback mechanisms:

- 116) Used for changes in blood glucose levels. A) Negative feedback 116) _____
Answer: A
Diff: 0 Type: MA

Match the following cavities and organs:

- 117) Uterus. A) Pelvic 117) _____
Answer: A
Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 118) Which of these is NOT part of the dorsal cavity? 118) _____
A) thoracic cavity B) cranial cavity C) spinal cord D) vertebral cavity
Answer: A
Diff: 0 Type: MC

- 119) One of the descriptions below is from the perspective of anatomical study, the rest are from a physiological perspective. Select the description below that comes from an anatomical perspective. 119) _____
A) The cell-to-cell connections between heart (cardiac) muscle cells are strong. They hold the tissue together for a life time of forceful contractions.
B) The innermost lining of the lungs is composed primarily of a thin tissue called simple squamous epithelium.
C) The extremely thin tissue (simple squamous epithelium) of the lungs allows for the quick diffusion of respiratory gases into and out of the body.
D) The direction of blood flow through the heart is directed by one way valves.
Answer: B
Diff: 0 Type: MC

- 120) Which of the following describes the operation of the heart and blood vessels? 120) _____
A) cardiovascular anatomy B) systemic physiology
C) cardiovascular physiology D) systemic anatomy
Answer: C
Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 121) The epigastric region is superior to the umbilical region. 121) _____
Answer: True False
Diff: 0 Type: TF

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

122) A small family was traveling in its van and had a minor accident. The children in the back seats were wearing lap belts, but still sustained numerous bruises about the abdomen, and had some internal organ injuries. Why is this area more vulnerable to damage than others?

Answer: The abdominal organs are the least protected in the body because they are not surrounded by a bony covering such as the ribs, pelvis, or cranium.

Diff: 0 Type: ES

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following regional terms and common terms:

123) Chest.

A) Thoracic

123) _____

Answer: A

Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

124) Some of the nerve endings in the skin are sensitive to changes in temperature. They are part of a negative feedback mechanism regulating body temperature. These nerve endings represent a(n) _____ in the negative feedback mechanism.

124) _____

A) receptor

B) homeostatic balance or "ideal" value

C) control center

D) effector

Answer: A

Diff: 0 Type: MC

125) A structure that is composed of two or more tissue types that work together to perform specific functions for the body is a(n) _____.

125) _____

A) organ system

B) complex cell

C) complex tissue

D) organ

Answer: D

Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

126) The part of the serous membrane that lines the peritoneal cavity wall is called visceral peritoneum.

126) _____

Answer: True False

Diff: 0 Type: TF

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the regional/directional terms and examples:

127) The bridge of the nose is _____ to the left eye.

A) Medial

127) _____

Answer: A

Diff: 0 Type: MA

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

128) Steve was injured in a football accident. X-ray examination showed a fracture underlying his left brachial deformity. What part of his body was injured?

Answer: His left upper arm

Diff: 0 Type: ES

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

129) What is the serous membrane that covers the intestines called? 129) _____

Answer: visceral peritoneum

Diff: 0 Type: SA

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following examples of feedback mechanisms:

130) Used for changes in blood pressure. A) Negative feedback 130) _____

Answer: A

Diff: 0 Type: MA

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

131) The ability to sense changes in the environment and respond to them is called _____. 131) _____

Answer: responsiveness or excitability

Diff: 0 Type: SA

Answer Key
Testname: CH1

- 1) A
Diff: 0 Page Ref:
Section: 1.5
- 2) B
Diff: 0 Page Ref:
Section: 1.5
- 3) cervical
Diff: 0 Page Ref:
Section: 1.5
- 4) A
Diff: 0 Page Ref:
Section: 1.6
- 5) negative
Diff: 0 Page Ref:
Section: 1.4
- 6) The integument cools the body through sweat while the muscular system warms the body by shivering.
Diff: 0 Page Ref:
Section: 1.2
- 7) A
Diff: 0 Page Ref:
Section: 1.6
- 8) A
Diff: 0 Page Ref:
Section: 1.5
- 9) Anatomical terms are precise words that have limited usage, which prevents confusion when describing the location of body parts.
Diff: 0 Page Ref:
Section: 1.5
- 10) A
Diff: 0 Page Ref:
Section: 1.5
- 11) B
Diff: 0 Page Ref:
Section: 1.2
- 12) TRUE
Diff: 0 Page Ref:
Section: 1.4
- 13) TRUE
Diff: 0 Page Ref:
Section: 1.5
- 14) They act to reduce friction and allow the organs to slide across cavity walls.
Diff: 0 Page Ref:
Section: 1.6
- 15) C
Diff: 0 Page Ref:
Section: 1.5
- 16) Yes, carbon dioxide is a metabolic waste the lungs excrete.
Diff: 0 Page Ref:
Section: 1.2, 1.3

Answer Key
Testname: CH1

- 17) A
Diff: 0 Page Ref:
Section: 1.3
- 18) FALSE
Diff: 0 Page Ref:
Section: 1.1
- 19) C
Diff: 0 Page Ref:
Section: 1.3
- 20) C
Diff: 0 Page Ref:
Section: 1.4
- 21) FALSE
Diff: 0 Page Ref:
Section: 1.5
- 22) B
Diff: 0 Page Ref:
Section: 1.4
- 23) A
Diff: 0 Page Ref:
Section: 1.5
- 24) water
Diff: 0 Page Ref:
Section: 1.3
- 25) A
Diff: 0 Page Ref:
Section: 1.3
- 26) The integument prevents entry of pathogens (germs, viruses, bacteria) OR harmful chemicals. The integumentary system prevents water (body fluid) loss.
Diff: 0 Page Ref:
Section: 1.2
- 27) TRUE
Diff: 0 Page Ref:
Section: 1.2
- 28) A
Diff: 0 Page Ref:
Section: 1.6
- 29) A
Diff: 0 Page Ref:
Section: 1.5
- 30) B
Diff: 0 Page Ref:
Section: 1.4
- 31) medial
Diff: 0 Page Ref:
Section: 1.5
- 32) A
Diff: 0 Page Ref:
Section: 1.5

Answer Key
Testname: CH1

- 33) B
Diff: 0 Page Ref:
Section: 1.5
- 34) pelvic
Diff: 0 Page Ref:
Section: 1.6
- 35) A
Diff: 0 Page Ref:
Section: 1.5
- 36) A
Diff: 0 Page Ref:
Section: 1.2
- 37) D
Diff: 0 Page Ref:
Section: 1.4
- 38) Homeostatic imbalances increase our risk for disease processes and produce the changes we associate with aging.
Diff: 0 Page Ref:
Section: 1.4
- 39) The wound is located on the outer side of the leg, the peroneal or fibular area.
Diff: 0 Page Ref:
Section: 1.5
- 40) A
Diff: 0 Page Ref:
Section: 1.4
- 41) E
Diff: 0 Page Ref:
Section: 1.6
- 42) A
Diff: 0 Page Ref:
Section: 1.2
- 43) A
Diff: 0 Page Ref:
Section: 1.5
- 44) respiratory system
Diff: 0 Page Ref:
Section: 1.2
- 45) TRUE
Diff: 0 Page Ref:
Section: 1.2
- 46) B
Diff: 0 Page Ref:
Section: 1.4
- 47) D
Diff: 0 Page Ref:
Section: 1.6
- 48) D
Diff: 0 Page Ref:
Section: 1.4

Answer Key
Testname: CH1

- 49) A
Diff: 0 Page Ref:
Section: 1.2
- 50) A
Diff: 0 Page Ref:
Section: 1.6
- 51) B
Diff: 0 Page Ref:
Section: 1.5
- 52) A
Diff: 0 Page Ref:
Section: 1.2
- 53) C
Diff: 0 Page Ref:
Section: 1.2, 1.3
- 54) A
Diff: 0 Page Ref:
Section: 1.2
- 55) A
Diff: 0 Page Ref:
Section: 1.2
- 56) B
Diff: 0 Page Ref:
Section: 1.3
- 57) A
Diff: 0 Page Ref:
Section: 1.5
- 58) TRUE
Diff: 0 Page Ref:
Section: 1.3
- 59) olecranal
Diff: 0 Page Ref:
Section: 1.5
- 60) C
Diff: 0 Page Ref:
Section: 1.6
- 61) A
Diff: 0 Page Ref:
Section: 1.5
- 62) A
Diff: 0 Page Ref:
Section: 1.3
- 63) B
Diff: 0 Page Ref:
Section: 1.5
- 64) D
Diff: 0 Page Ref:
Section: 1.6

Answer Key

Testname: CH1

65) D

Diff: 0 Page Ref:
Section: 1.2

66) C

Diff: 0 Page Ref:
Section: 1.5

67) A

Diff: 0 Page Ref:
Section: 1.6

68) A

Diff: 0 Page Ref:
Section: 1.2

69) D

Diff: 0 Page Ref:
Section: 1.1

70) The pleural space contains a small amount of fluid that acts as a lubricant, allowing the pleurae to slide smoothly over each other as the lungs expand and contract. Pleurisy is an inflammation of the pleura around the lungs. When inflammation occurs in the pleural space, the pleurae do not slide smoothly and this causes severe pain that is more directly transmitted by the parietal than the visceral pleura.

Diff: 0 Page Ref:
Section: 1.6

71) D

Diff: 0 Page Ref:
Section: 1.1

72) C

Diff: 0 Page Ref:
Section: 1.1

73) D

Diff: 0 Page Ref:
Section: 1.4

74) homeostasis

Diff: 0 Page Ref:
Section: 1.4

75) A

Diff: 0 Page Ref:
Section: 1.4

76) C

Diff: 0 Page Ref:
Section: 1.4

77) A

Diff: 0 Page Ref:
Section: 1.2

78) The walls of the abdominal cavity are formed only by trunk muscles and are not reinforced by bone. The pelvic organs receive a somewhat greater degree of protection from the bony pelvis.

Diff: 0 Page Ref:
Section: 1.6

79) A

Diff: 0 Page Ref:
Section: 1.6

Answer Key

Testname: CH1

80) A

Diff: 0 Page Ref:
Section: 1.2

81) A

Diff: 0 Page Ref:
Section: 1.2

82) FALSE

Diff: 0 Page Ref:
Section: 1.6

83) TRUE

Diff: 0 Page Ref:
Section: 1.6

84) The skeleton provides the ridged frame work (levers) for muscles to attach to. Muscles provide the force to move the bones about the joints.

Diff: 0 Page Ref:
Section: 1.2

85) D

Diff: 0 Page Ref:
Section: 1.6

86) E

Diff: 0 Page Ref:
Section: 1.4

87) They provide a mechanism to maintain levels of substances within physiological limits.

Diff: 0 Page Ref:
Section: 1.4

88) C

Diff: 0 Page Ref:
Section: 1.1

89) A

Diff: 0 Page Ref:
Section: 1.5

90) positive feedback

Diff: 0 Page Ref:
Section: 1.4

91) metabolism

Diff: 0 Page Ref:
Section: 1.3

92) If body temperature is too low, chemical reactions slow and eventually stop. If body temperature is too high, chemical reactions speed up and body proteins lose their normal shape, resulting in loss of function.

Diff: 0 Page Ref:
Section: 1.3

93) A

Diff: 0 Page Ref:
Section: 1.1

94) A

Diff: 0 Page Ref:
Section: 1.2

95) A

Diff: 0 Page Ref:
Section: 1.6

Answer Key
Testname: CH1

96) Structure is specific to meet the needs of it's function.

Diff: 0 Page Ref:
Section: 1.1

97) A

Diff: 0 Page Ref:
Section: 1.5

98) A

Diff: 0 Page Ref:
Section: 1.5

99) TRUE

Diff: 0 Page Ref:
Section: 1.4

100) A

Diff: 0 Page Ref:
Section: 1.6

101) A

Diff: 0 Page Ref:
Section: 1.2

102) B

Diff: 0 Page Ref:
Section: 1.4

103) TRUE

Diff: 0 Page Ref:
Section: 1.3

104) tissues

Diff: 0 Page Ref:
Section: 1.2

105) A

Diff: 0 Page Ref:
Section: 1.2

106) afferent pathway

Diff: 0 Page Ref:
Section: 1.4

107) B

Diff: 0 Page Ref:
Section: 1.6

108) A

Diff: 0 Page Ref:
Section: 1.5

109) A

Diff: 0 Page Ref:
Section: 1.1

110) D

Diff: 0 Page Ref:
Section: 1.6

111) Physiology

Diff: 0 Page Ref:
Section: 1.1

Answer Key

Testname: CH1

112) A

Diff: 0 Page Ref:
Section: 1.4

113) Childbirth is based on the increasing levels of oxytocin that cause the uterine contractions. Under positive feedback, oxytocin levels increase which results in increasing strong contractions by the upper uterus that will ultimately result in the birth of the child. But this positive feedback needs numerous contraction cycles to overcome the muscular resistance to stretching in the lower uterus in order for the head to pass.

Diff: 0 Page Ref:
Section: 1.4

114) A

Diff: 0 Page Ref:
Section: 1.2

115) The blood is provided a consistent supply of oxygen from the lungs while the circulatory system delivers carbon dioxide which will be removed from the body by the respiratory system.

Diff: 0 Page Ref:
Section: 1.2

116) A

Diff: 0 Page Ref:
Section: 1.4

117) A

Diff: 0 Page Ref:
Section: 1.6

118) A

Diff: 0 Page Ref:
Section: 1.6

119) B

Diff: 0 Page Ref:
Section: 1.1

120) C

Diff: 0 Page Ref:
Section: 1.1

121) TRUE

Diff: 0 Page Ref:
Section: 1.6

122) The abdominal organs are the least protected in the body because they are not surrounded by a bony covering such as the ribs, pelvis, or cranium.

Diff: 0 Page Ref:
Section: 1.6

123) A

Diff: 0 Page Ref:
Section: 1.5

124) A

Diff: 0 Page Ref:
Section: 1.4

125) D

Diff: 0 Page Ref:
Section: 1.2

126) FALSE

Diff: 0 Page Ref:
Section: 1.6

Answer Key

Testname: CH1

127) A

Diff: 0 Page Ref:
Section: 1.5

128) His left upper arm

Diff: 0 Page Ref:
Section: 1.5

129) visceral peritoneum

Diff: 0 Page Ref:
Section: 1.6

130) A

Diff: 0 Page Ref:
Section: 1.4

131) responsiveness or excitability

Diff: 0 Page Ref:
Section: 1.3