#### Anatomy and Physiology The Unity of Form and Function 6th Edition Saladin Test Bank

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## chapter 01

## **True / False Questions**

- 1. Feeling for swollen lymph nodes is an example of auscultation. True False
- 2. We can see through bones with magnetic resonance imaging (MRI). True False
- 3. Histology is the study of structures that can be observed without a magnifying lens. True False
- 4. Cells were first named by microscopist Robert Hooke. True False
- 5. All functions of the body can be interpreted as the effects of cellular activity. True False
- The *hypothetico-deductive method* is common in physiology, whereas the *inductive method* is common in anatomy. True False
- 7. An individual scientific fact has more information than a theory. True False
- 8. Evolutionary (darwinian) medicine traces some of our diseases to our evolutionary past. True False
- 9. The terms development and evolution have the same meaning in physiology. True False
- 10. Organs are made of tissues. True False
- 11. A molecule of water is more complex than a mitochondrion (organelle). True False
- 12. Homeostasis and occupying space are both unique characteristics of living things. True False
- Positive feedback helps to restore normal function when one of the body's physiological variables gets out of balance. True False
- 14. Negative feedback is a self-amplifying chain of events that tend to produce rapid change in the body. True False
- Anatomists over the world adhere to a lexicon of standard international terms, which stipulates both Latin names and accepted English equivalents. True False

#### **Multiple Choice Questions**

- 16. Feeling structures with your fingertips is called \_\_\_\_\_, whereas tapping on the body and listening for sounds of abnormalities is called
  - A. palpation; auscultation.
  - B. auscultation; percussion.
  - C. percussion; auscultation.
  - D. palpation; percussion.
  - E. percussion; palpation.

\_\_\_\_\_ was the first to publish accurate drawings of the body, and is thus regarded 17. as "the father of modern anatomy."

- A. Vesalius
- B. Maimonides
- C. Harvey
- D. Aristotle
- E. van Leeuwenhoek

\_\_\_\_ wrote the most influential medical textbook of the ancient era.

- A. Hippocrates
- B. Aristotle
- C. Galen

18. \_

- D. Vesalius
- E. Avicenna
- 19. Which of these is the best imaging technique for routinely examining the anatomical development of a fetus?
  - A. auscultation
  - B. PET scan
  - C. MRI
  - D. sonography
  - E. radiography
- 20. The terms physics, physiology, and physician come from a term that \_\_\_\_ proposed to distinguish natural causes from supernatural causes.
  - A. Hippocrates
  - B. Plato
  - C. Schwann
  - D. Aristotle
  - E. Avicenna
- 21. The process of using numerous observations to develop general principles and predictions about a specific subject is called
  - A. experimental design.
  - B. deductive method.
  - C. inductive method.
  - D. hypothesis.
  - E. statistical testing.
- 22. Most people think that ulcers are caused by psychological stress. It was discovered that an acid-resistant bacterium, Heliobacter pylori, lives in the lining of the stomach. If these bacteria cause ulcers, then treatment with an antibiotic should reduce ulcers. This line of investigation is an example of
  - A. hypothetical reasoning.
  - B. hypothetico-deductive reasoning.
  - C. the inductive method.
  - D. experimental design.
  - E. statistical analysis.

23. An educated speculation or a possible answer to a question is called a(n)

- A. scientific method.
- B. theory.
- C. law.
- D. hypothesis.
- E. fact.
- 24. The use of controls and statistical testing are two aspects of experimental design that help to ensure
  - A. an adequate sample size.
  - B. objective and reliable results.
  - C. experimental bias.
  - D. psychosomatic effects.
  - E. treatment groups.
- 25. \_\_\_\_\_\_ is a process that submits a scientist's ideas to the critical judgment of other specialists in the field before the research is funded or published.
  - A. Adjudication
  - B. Statistical testing
  - C. Falsification
  - D. Peer review
  - E. Hypothetico-deductive testing
- 26. Which of the following would contain the greatest amount of information that scientists consider to be true to the best of their knowledge?
  - A. a fact
  - B. a law of nature
  - C. a hypothesis
  - D. an equation
  - E. a theory
- 27. The study of structure and function of cells is called
  - A. cytology.
  - B. gross anatomy.
  - C. exploratory physiology.
  - D. comparative physiology.
  - E. radiology.

28. \_\_\_\_\_\_ established a code of ethics for physicians. He is considered the "father of medicine."

- A. Aristotle
- B. Hippocrates
- C. Galen
- D. Vesalius
- E. Hooke
- 29. A new drug apparently increases short-term memory. Students were divided randomly into two groups at the beginning of the semester. One group was given the memory pill once a day for the semester, and the other group was given a same-looking pill, but it was just sugar. The sugar pill is termed a(n) A. controlled pill.
  - B. placebo.
  - C. treatment pill.
  - D. variable.
  - E. effective dose.

- 30. Two groups of people were tested to determine whether garlic lowers blood cholesterol levels. One group was given 800 mg of garlic powder daily for four months and exhibited an average 12% reduction in the blood cholesterol. The other group was not given any garlic and after four months averaged a 3% reduction in cholesterol. The group that was not given the garlic was the
  - A. peer group.
  - B. test group.
  - C. treatment group.
  - D. control group.
  - E. double-blind group.

## 31. A change in the genetic composition of a population over time is called

- A. mutation.
- B. natural selection.
- C. selection pressure.
- D. evolution.
- E. adaptation.

## 32. The constant appearance of new strains of influenza virus is an example of

- A. a model.
- B. evolution.
- C. selection pressure.
- D. survivorship.
- E. success.

## 33. The principal theory of how evolution works is called

- A. natural pressure.
- B. selective pressure.
- C. darwinian pressure.
- D. natural adaptation.
- E. natural selection.
- 34. Which of the following was an adaptation evolved in connection with human upright walking? A. hair
  - B. thumbs fully opposable
  - C. stereoscopic vision
  - D. color vision
  - E. spinal and pelvic anatomy
- 35. Stereoscopic vision provides
  - A. opposable perception.
  - B. color perception.
  - C. depth perception.
  - D. bipedalism.
  - E. walking upright.
- 36. Humans are born before their nervous system have matured, which is traceable to
  - A. their inability to regulate body temperature.
  - B. skeletal adaptations to bipedalism.
  - C. the arboreal habits of early primates.
  - D. the conditions of modern civilization.
  - E. the diet of early species of Homo.

## 37. Our own species is called

- A. Homo erectus.
- B. Homo sapiens.
- C. Homo habilis.
- D. early *Homo*.
- E. Australopithecus.

38. Most primates are \_\_\_\_\_, meaning they live in trees.

- A. prehensile
- B. bipedal
- C. cursorial
- D. troglodytic
- E. arboreal

39. An \_\_\_\_\_\_ is composed of two or more tissues types, whereas \_\_\_\_\_\_ are microscopic structures in a cell.

- A. organ system, organs
- B. organ system, organelles
- C. organ, organelles
- D. organ, molecules
- E. organelle, molecules
- 40. Which of the following lists levels of human structure from the most complex to the simplest?
  - A. organelle, cell, tissue, organ, organ system
  - B. organ system, organ, cell, tissue, organelle
  - C. organ system, organelle, tissue, cell, organ
  - D. organ system, organ, tissue, cell, organelle
  - E. organ, organ system, tissue, cell, organelle
- 41. Which of the following lists examples of body structures from the simplest to the most complex?
  - A. mitochondrion, connective tissue, protein, stomach, adipocyte (fat cell)
  - B. protein, mitochondrion, adipocyte (fat cell), connective tissue, stomach
  - C. mitochondrion, connective tissue, stomach, protein, adipocyte (fat cell)
  - D. protein, adipocyte (fat cell), stomach, connective tissue, mitochondrion
  - E. protein, stomach, connective tissue, adipocyte (fat cell), mitochondrion
- 42. A(n) \_\_\_\_\_\_ is a group of similar cells and their intercellular materials in a discrete region of an organ performing a specific function.
  - A. macromolecule
  - B. organ system
  - C. organelle
  - D. organism
  - E. tissue

43. Taking apart a clock to see how it works is similar to \_\_\_\_\_\_ thinking about human physiology.

- A. comparative
- B. evolutionary
- C. holistic
- D. inductive
- E. reductionist

44. \_\_\_\_\_\_ approaches understanding of the human body by studying interactions of its parts.

- A. Naturalism
- B. Reductionism
- C. Vitalism
- D. Holism
- E. Rationalism

45. \_\_\_\_\_\_ is the view that not everything about an organism can be understood or predicted from the knowledge of its components; that is, the whole is greater than the sum of its parts.

- A. Naturalism
- B. Reductionism
- C. Holism
- D. Materialism
- E. Science

e

46. The fact that most of us have five lumbar vertebrae, but some people have six and some have four is an example of \_\_\_\_\_\_ variation among organisms.

- A. cellular
- B. holistic
- C. physiological
- D. anatomical
- E. reductionist

\_\_\_\_\_ are the simplest body structures considered alive.

47.

A. Organ systems

- B. Organs
- C. Cells
- D. Organelles
- E. Molecules
- 48. All of the following are human organ systems except
  - A. skeletal.
  - B. endocrine.
  - C. epidermal.
  - D. reproductive.
  - E. lymphatic.
- 49. All of the following are organs except
  - A. teeth.
  - B. skin.
  - C. nails.
  - D. liver.
  - E. digestive system.
- 50. Metabolism is the sum of
  - A. inhalation and exhalation.
  - B. growth and differentiation.
  - C. anabolism and catabolism.
  - D. positive and negative feedback.
  - E. responsiveness and movement.
- 51. We live in an ever-changing environment outside of our body, yet our internal conditions remain relatively stable. This is called
  - A. homeostasis.
  - B. metastasis.
  - C. responsiveness.
  - D. adaptation.
  - E. evolution.
- 52. When you exercise you generate excess heat and your body temperature rises. Blood vessels dilate in the skin, warm blood flows closer to the body surface, and you lose heat. This exemplifies
  - A. negative feedback.
  - B. positive feedback.
  - C. dynamic equilibrium.
  - D. integration control.
  - E. set point adjustment.

- 53. When a woman is giving birth, the head of the baby pushes against her cervix and stimulates release of the hormone oxytocin. Oxytocin travels in the blood and stimulates the uterus to contract. Labor contractions become more and more intense until the baby is expelled. This is an example of
  - A. negative feedback. B. positive feedback.
  - C. dynamic equilibrium.
  - D. integration control.
  - E. set point adjustment.

## 54. Which of the following is most likely to cause disease?

- A. positive feedback
- B. negative feedback
- C. homeostasis
- D. equilibrium
- E. irritability
- 55. Blood glucose concentration rises after a meal and stimulates release of the hormone insulin. Insulin travels in the blood and stimulates body cells to uptake glucose from the bloodstream. This reduces blood glucose concentration. This is an example of
  - A. negative feedback.
  - B. positive feedback.
  - C. dynamic equilibrium.
  - D. integration control.
  - E. set point adjustment.
- 56. The \_\_\_\_\_\_ is defined as a healthy male 22 years old, weighing 70 kg (154 lb), under no environmental stress, and consuming 2,800 kilocalories (kcal) per day; whereas the \_\_\_\_\_\_ is the same except for a weight of 58 kg (128 lb) and an intake of 2,000 kcal/day.
  - A. normal man, normal woman
  - B. normal male, normal female
  - C. average man, average woman
  - D. average male, average woman
  - E. reference man, reference woman
- 57. The change in size of the bone marrow (where blood cells are produced) as an infant matures is an example of \_\_\_\_\_\_, whereas the transformation of blood stem cells into white blood cells is an example of \_\_\_\_\_\_
  - A. development, differentiation.
  - B. growth, development.
  - C. growth, differentiation.
  - D. differentiation, growth.
  - E. differentiation, development.
- 58. Three common components of a feedback loop are
  - A. a stimulus, an integrating (control) center, and an organ system.
  - B. a stimulus, a receptor, and an integrating (control) center.
  - C. a receptor, an integrating (control) center, and an effector.
  - D. a receptor, an organ, and an organ system.
  - E. a receptor, an integrating (control) center, and an organ system.
- 59. Negative feedback loops are
  - A. homeostatic.
  - B. not homeostatic.
  - C. associated with "vicious circles."
  - D. self-amplifying cycles.
  - E. harmful.

- 60. The prefix *hypo* means \_\_\_\_\_\_, whereas *hyper* means \_\_\_\_\_\_. A. front, back B. right, left C. inside, outside D. clear, dark E. below, above 61. The term *fallopian* tube (uterine tube) is an example of A. a Latin root used in medical terminology. B. the use of prefixes to name an anatomical structure. C. the use of suffixes to name an anatomical structure. D. an eponym. E. an acronym. 62. Hypercalcemia means A. elevated calcium levels in blood. B. lowered calcium levels in bone. C. elevated sodium levels in blood. D. elevated calcium levels in bone. E. lowered calcium levels in the blood. 63. The plural of axilla (armpit) is \_\_\_\_\_\_ whereas the plural of appendix is \_\_\_\_\_\_.
  - A. axillae; appendices
  - B. axillides; appendages
  - C. axillies; appendi
  - D. axilli; appendices

64. The plural of villus (hair) is \_\_\_\_\_\_ whereas the plural of diagnosis is \_\_\_\_\_\_

- A. villuses, diagnosises.
- B. villi, diagnoses.
- C. villus, diagnosis.
- D. villi, diagnosis.
- E. villuses, diagnosis.

#### 65. The lexicon of standard international anatomical terms

- A. is called *Terminologia Anatomica* (TA).
- B. is called Nomina Anatomica (NA).
- C. is formed from thousands of English word roots.
- D. is formed from thousands of Italian word roots.
- E. is formed from thousands of French word roots.

# chapter 01 Key

## **True / False Questions**

1. Feeling for swollen lymph nodes is an example of auscultation. FALSE

> Bloom's Level: 1. Remember Learning Outcome: 01.01.b Describe several ways of studying human anatomy. Section: 01.01 Topic: General

2. We can see through bones with magnetic resonance imaging (MRI). <u>TRUE</u>

Bloom's Level: 1. Remember Learning Outcome: 01.01.b Describe several ways of studying human anatomy. Section: 01.01 Topic: General

3. Histology is the study of structures that can be observed without a magnifying lens. **FALSE** 

Bloom's Level: 1. Remember Learning Outcome: 01.01.b Describe several ways of studying human anatomy. Section: 01.01 Topic: General

4. Cells were first named by microscopist Robert Hooke. <u>TRUE</u>

> Bloom's Level: 1. Remember Learning Outcome: 01.02.b Describe the contributions of some key people who helped to bring about this transformation. Section: 01.02 Topic: General

5. All functions of the body can be interpreted as the effects of cellular activity. **TRUE** 

Bloom's Level: 3. Apply Learning Outcome: 01.02.b Describe the contributions of some key people who helped to bring about this transformation. Section: 01.02 Topic: General The hypothetico-deductive method is common in physiology, whereas the inductive method is

The *hypothetico-deductive method* is common in physiology, whereas the *inductive method* is common in anatomy.
TRUE

Bloom's Level: 3. Apply Learning Outcome: 01.03.a Describe the inductive and hypothetico-deductive methods of obtaining scientific knowledge. Section: 01.03 Topic: General

7. An individual scientific fact has more information than a theory. **FALSE** 

Bloom's Level: 2. Understand Learning Outcome: 01.03.c Explain what is meant by hypothesis, fact, law, and theory in science. Section: 01.03 Topic: General

8. Evolutionary (darwinian) medicine traces some of our diseases to our evolutionary past. **TRUE** 

Bloom's Level: 1. Remember Learning Outcome: 01.04.a Explain why evolution is relevant to understanding human form and function. Section: 01.04 Topic: General

9. The terms development and evolution have the same meaning in physiology. **FALSE** 

10. Organs are made of tissues. <u>TRUE</u>

11. A molecule of water is more complex than a mitochondrion (organelle). **FALSE** 

Bloom's Level: 3. Apply Learning Outcome: 01.05.a List the levels of human structure from the most complex to the simplest. Section: 01.05 Topic: General

12. Homeostasis and occupying space are both unique characteristics of living things. **FALSE** 

Bloom's Level: 3. Apply Learning Outcome: 01.06.a State the characteristics that distinguish living organisms from nonliving objects. Section: 01.06 Topic: General store normal function when one of the body's physiological variables gets

Positive feedback helps to restore normal function when one of the body's physiological variables gets out of balance.
FALSE

Bloom's Level: 2. Understand Learning Outcome: 01.06.e Define positive feedback and give examples of its beneficial and harmful effects. Section: 01.06 Topic: General Negative feedback is a self-amplifying chain of events that tend to produce rapid change in the body.

FALSE

14.

15.

Bloom's Level: 2. Understand Learning Outcome: 01.06.d Define negative feedback, given an example of it, and explain its importance to homeostasis. Section: 01.06 Topic: General Anatomists over the world adhere to a lexicon of standard international terms, which stipulates both Latin names and accepted English equivalents.

TRUE

Bloom's Level: 1. Remember Learning Outcome: 01.07.a Explain why modern anatomical terminology is so heavily based on Greek and Latin. Section: 01.07 Topic: General

# **Multiple Choice Questions**

16. Feeling structures with your fingertips is called \_\_\_\_\_, whereas tapping on the body and listening for sounds of abnormalities is called \_\_\_\_\_\_

- A. palpation; auscultation.
- B. auscultation; percussion.
- C. percussion; auscultation.
- **D.** palpation; percussion.
- E. percussion; palpation.

Bloom's Level: 1. Remember Learning Outcome: 01.01.b Describe several ways of studying human anatomy. Section: 01.01 Topic: General 17.

was the first to publish accurate drawings of the body, and is thus regarded

- as "the father of modern anatomy."
- <u>A.</u> Vesalius
- B. Maimonides
- C. Harvey
- D. Aristotle
- E. van Leeuwenhoek

Bloom's Level: 1. Remember Learning Outcome: 01.02.b Describe the contributions of some key people who helped to bring about this transformation. Section: 01.02 Topic: General

## wrote the most influential medical textbook of the ancient era.

18.

- A. Hippocrates
- B. Aristotle
- <u>C.</u> Galen
- D. Vesalius
- E. Avicenna

Bloom's Level: 1. Remember Learning Outcome: 01.02.b Describe the contributions of some key people who helped to bring about this transformation. Section: 01.02 Topic: General

- 19. Which of these is the best imaging technique for routinely examining the anatomical development of a fetus?
  - A. auscultation
  - B. PET scan
  - C. MRI
  - **<u>D.</u>** sonography
  - E. radiography

Bloom's Level: 1. Remember Learning Outcome: 01.01.b Describe several ways of studying human anatomy. Section: 01.01 Topic: General

20. The terms physics, physiology, and physician come from a term that \_\_\_\_\_ proposed to distinguish natural causes from supernatural causes.

- A. Hippocrates
- B. Plato
- C. Schwann
- **D.** Aristotle
- E. Avicenna

Bloom's Level: 1. Remember Learning Outcome: 01.02.a Give examples of how modern biomedical science emerged from an era of superstition and authoritarianism. Section: 01.02 Topic: General

- 21. The process of using numerous observations to develop general principles and predictions about a specific subject is called
  - A. experimental design.
  - B. deductive method.
  - **<u>C.</u>** inductive method.
  - D. hypothesis.
  - E. statistical testing.

Bloom's Level: 2. Understand Learning Outcome: 01.03.a Describe the inductive and hypothetico-deductive methods of obtaining scientific knowledge. Section: 01.03 Topic: General

- 22. Most people think that ulcers are caused by psychological stress. It was discovered that an acidresistant bacterium, *Heliobacter pylori*, lives in the lining of the stomach. If these bacteria cause ulcers, then treatment with an antibiotic should reduce ulcers. This line of investigation is an example of
  - A. hypothetical reasoning.
  - **<u>B.</u>** hypothetico-deductive reasoning.
  - C. the inductive method.
  - D. experimental design.
  - E. statistical analysis.

Bloom's Level: 2. Understand Learning Outcome: 01.03.a Describe the inductive and hypothetico-deductive methods of obtaining scientific knowledge. Section: 01.03 Topic: General

- 23. An educated speculation or a possible answer to a question is called a(n)
  - A. scientific method.
  - B. theory.
  - C. law.
  - **D.** hypothesis.
  - E. fact.

Bloom's Level: 2. Understand Learning Outcome: 01.03.c Explain what is meant by hypothesis, fact, law, and theory in science. Section: 01.03 Topic: General

24. The use of controls and statistical testing are two aspects of experimental design that help to ensure

- A. an adequate sample size.
- **B.** objective and reliable results.
- C. experimental bias.
- D. psychosomatic effects.
- E. treatment groups.

Bloom's Level: 3. Apply Learning Outcome: 01.03.b Describe some aspects of experimental design that help to ensure objective and reliable results. Section: 01.03 Topic: General

\_\_\_\_\_\_ is a process that submits a scientist's ideas to the critical judgment of other specialists in the field before the research is funded or published.

A. Adjudication

25.

- B. Statistical testing
- C. Falsification
- **D.** Peer review
- E. Hypothetico-deductive testing

Bloom's Level: 1. Remember Learning Outcome: 01.03.b Describe some aspects of experimental design that help to ensure objective and reliable results. Section: 01.03 Topic: General

26. Which of the following would contain the greatest amount of information that scientists consider to be true to the best of their knowledge?

- A. a fact
- B. a law of nature
- C. a hypothesis
- D. an equation
- **<u>E.</u>** a theory

- 27. The study of structure and function of cells is called
  - <u>A.</u> cytology.
  - B. gross anatomy.
  - C. exploratory physiology.
  - D. comparative physiology.
  - E. radiology.

Bloom's Level: 1. Remember Learning Outcome: 01.01.b Describe several ways of studying human anatomy. Section: 01.01 Topic: General

28.

established a code of ethics for physicians. He is considered the "father of

- medicine."
- A. Aristotle
- **<u>B.</u>** Hippocrates
- C. Galen
- D. Vesalius
- E. Hooke

Bloom's Level: 1. Remember Learning Outcome: 01.02.b Describe the contributions of some key people who helped to bring about this transformation. Section: 01.02

- Topic: General
- 29. A new drug apparently increases short-term memory. Students were divided randomly into two groups at the beginning of the semester. One group was given the memory pill once a day for the semester, and the other group was given a same-looking pill, but it was just sugar. The sugar pill is termed a(n)
  - A. controlled pill.
  - **<u>B.</u>** placebo.
  - C. treatment pill.
  - D. variable.
  - E. effective dose.

Bloom's Level: 3. Apply Learning Outcome: 01.03.b Describe some aspects of experimental design that help to ensure objective and reliable results. Section: 01.03 Topic: General

- 30. Two groups of people were tested to determine whether garlic lowers blood cholesterol levels. One group was given 800 mg of garlic powder daily for four months and exhibited an average 12% reduction in the blood cholesterol. The other group was not given any garlic and after four months averaged a 3% reduction in cholesterol. The group that was not given the garlic was the
  - A. peer group.
  - B. test group.
  - C. treatment group.
  - <u>**D.**</u> control group.
  - $E. \ \ double-blind \ group.$

Bloom's Level: 3. Apply Learning Outcome: 01.03.b Describe some aspects of experimental design that help to ensure objective and reliable results. Section: 01.03 Topic: General

- 31. A change in the genetic composition of a population over time is called
  - A. mutation.
  - B. natural selection.
  - C. selection pressure.
  - <u>**D.**</u> evolution.
  - E. adaptation.

Bloom's Level: 1. Remember Learning Outcome: 01.04.b Define evolution and natural selection. Section: 01.04 Topic: General 32. The constant appearance of new strains of influenza virus is an example of

- A. a model.
- **<u>B.</u>** evolution.
- C. selection pressure.
- D. survivorship.
- E. success.

Bloom's Level: 3. Apply Learning Outcome: 01.04.b Define evolution and natural selection. Section: 01.04 Topic: General

33. The principal theory of how evolution works is called

- A. natural pressure.
- B. selective pressure.
- C. darwinian pressure.
- D. natural adaptation.
- **<u>E.</u>** natural selection.

Bloom's Level: 1. Remember Learning Outcome: 01.04.b Define evolution and natural selection. Section: 01.04 Topic: General

- 34. Which of the following was an adaptation evolved in connection with human upright walking? A. hair
  - B. thumbs fully opposable
  - C. stereoscopic vision
  - D. color vision
  - **E.** spinal and pelvic anatomy

Bloom's Level: 2. Understand Learning Outcome: 01.04.d Describe some human characteristics that evolved later in connection with upright walking. Section: 01.04 Topic: General

- 35. Stereoscopic vision provides
  - A. opposable perception.
  - B. color perception.
  - <u>**C.**</u> depth perception.
  - D. bipedalism.
  - E. walking upright.

Bloom's Level: 1. Remember Learning Outcome: 01.04.c Describe some human characteristics that can be attributed to the tree-dwelling habits of earlier primates. Section: 01.04 Topic: General

- 36. Humans are born before their nervous system have matured, which is traceable to
  - A. their inability to regulate body temperature.
  - **<u>B.</u>** skeletal adaptations to bipedalism.
  - C. the arboreal habits of early primates.
  - D. the conditions of modern civilization.
  - E. the diet of early species of Homo.

Bloom's Level: 2. Understand Learning Outcome: 01.04.d Describe some human characteristics that evolved later in connection with upright walking. Section: 01.04 Topic: General

- 37. Our own species is called
  - A. Homo erectus.
  - **<u>B.</u>** Homo sapiens.
  - C. Homo habilis.
  - D. early Homo.
  - E. Australopithecus.

- 38. Most primates are \_\_\_\_\_, meaning they live in trees.
  - A. prehensile
  - B. bipedal
  - C. cursorial
  - D. troglodytic
  - E. arboreal

eal	
	Bloom's Level: 1. Remember
	Learning Outcome: 01.04.c Describe some human characteristics that can be attributed to the tree-dwelling habits of earlier primates.
	Section: 01.04
	Topic: General
	Topic. General

- 39. An \_\_\_\_\_\_ is composed of two or more tissues types, whereas \_\_\_\_\_\_ are microscopic structures in a cell.
  - A. organ system, organs
  - B. organ system, organelles
  - $\underline{C.}$  organ, organelles
  - D. organ, molecules
  - E. organelle, molecules

Bloom's Level: 1. Remember Learning Outcome: 01.05.a List the levels of human structure from the most complex to the simplest. Section: 01.05 Topic: General

- 40. Which of the following lists levels of human structure from the most complex to the simplest?
  - A. organelle, cell, tissue, organ, organ system
  - B. organ system, organ, cell, tissue, organelle
  - C. organ system, organelle, tissue, cell, organ
  - **<u>D.</u>** organ system, organ, tissue, cell, organelle
  - E. organ, organ system, tissue, cell, organelle

- 41. Which of the following lists examples of body structures from the simplest to the most complex?
  - A. mitochondrion, connective tissue, protein, stomach, adipocyte (fat cell)
  - **<u>B.</u>** protein, mitochondrion, adipocyte (fat cell), connective tissue, stomach
  - C. mitochondrion, connective tissue, stomach, protein, adipocyte (fat cell)
  - D. protein, adipocyte (fat cell), stomach, connective tissue, mitochondrion
  - E. protein, stomach, connective tissue, adipocyte (fat cell), mitochondrion

Bloom's Level: 3. Apply

Learning Outcome: 01.05.a List the levels of human structure from the most complex to the simplest. Section: 01.05 Topic: General

- 42. A(n) \_\_\_\_\_\_ is a group of similar cells and their intercellular materials in a discrete region of an organ performing a specific function.
  - A. macromolecule
  - B. organ system
  - C. organelle
  - D. organism
  - <u>E.</u> tissue

Bloom's Level: 1. Remember Learning Outcome: 01.05.a List the levels of human structure from the most complex to the simplest. Section: 01.05 Topic: General

Bloom's Level: 1. Remember Learning Outcome: 01.05.a List the levels of human structure from the most complex to the simplest. Section: 01.05 Topic: General

43.	Taking apart a clock to see how it works is similar to thinking about human
	physiology.
	A. comparative
	B. evolutionary
	C. holistic
	D. inductive
	<u>E.</u> reductionist
	Bloom's Level: 3. Apply Learning Outcome: 01.05.b Discuss the value of both reductionistic and holistic viewpoints to understanding human form and function. Section: 01.05
44.	Topic: General approaches understanding of the human body by studying interactions of its parts.
	A. Naturalism
	<b><u>B.</u></b> Reductionism
	C. Vitalism
	D. Holism
	E. Rationalism
	Bloom's Level: 1. Remember Learning Outcome: 01.05.b Discuss the value of both reductionistic and holistic viewpoints to understanding human form and function. Section: 01.05 Topic: General
45.	is the view that not everything about an organism can be understood or predicted
121	from the knowledge of its components; that is, the whole is greater than the sum of its parts.
	A. Naturalism
	B. Reductionism
	<u>C.</u> Holism
	D. Materialism
	E. Science
	Bloom's Level: 1. Remember Learning Outcome: 01.05.b Discuss the value of both reductionistic and holistic viewpoints to understanding human form and function. Section: 01.05 Topic: General
46.	The fact that most of us have five lumbar vertebrae, but some people have six and some have four is
	an example of variation among organisms.
	A. cellular
	B. holistic
	C. physiological
	<u><b>D.</b></u> anatomical
	E. reductionist
	Bloom's Level: 3. Apply Learning Outcome: 01.05.c Discuss the clinical significance of anatomical variation among humans. Section: 01.05
45	Topic: General
47.	are the simplest body structures considered alive.
	A. Organ systems
	B. Organs
	<u>C.</u> Cells
	D. Organelles E. Molecules

E. Molecules

Bloom's Level: 1. Remember Learning Outcome: 01.06.a State the characteristics that distinguish living organisms from nonliving objects. Section: 01.05 Topic: General 48. All of the following are human organ systems *except* 

- A. skeletal.
- B. endocrine.
- **<u>C.</u>** epidermal.
- D. reproductive.
- E. lymphatic.

Bloom's Level: 1. Remember Learning Outcome: 01.05.a List the levels of human structure from the most complex to the simplest. Section: 01.05 Topic: General

- 49. All of the following are organs *except* 
  - A. teeth.
  - B. skin.
  - C. nails.
  - D. liver.
  - **E.** digestive system.

Bloom's Level: 1. Remember Learning Outcome: 01.05.a List the levels of human structure from the most complex to the simplest. Section: 01.05 Topic: General

- 50. Metabolism is the sum of
  - A. inhalation and exhalation.
  - B. growth and differentiation.
  - **<u>C.</u>** anabolism and catabolism.
  - D. positive and negative feedback.
  - E. responsiveness and movement.

Bloom's Level: 1. Remember Learning Outcome: 01.06.a State the characteristics that distinguish living organisms from nonliving objects. Section: 01.06 Topic: General

- 51. We live in an ever-changing environment outside of our body, yet our internal conditions remain relatively stable. This is called
  - <u>A.</u> homeostasis.
  - B. metastasis.
  - C. responsiveness.
  - D. adaptation.
  - E. evolution.

Bloom's Level: 1. Remember Learning Outcome: 01.06.c Define homeostasis and explain why this concept is central to physiology. Section: 01.06 Topic: General

- 52. When you exercise you generate excess heat and your body temperature rises. Blood vessels dilate in the skin, warm blood flows closer to the body surface, and you lose heat. This exemplifies <u>A</u>. negative feedback.
  - B. positive feedback.
  - C. dynamic equilibrium.
  - D. integration control.
  - E. set point adjustment.

Bloom's Level: 3. Apply Learning Outcome: 01.06.d Define negative feedback, given an example of it, and explain its importance to homeostasis. Section: 01.06 Topic: General

- 53. When a woman is giving birth, the head of the baby pushes against her cervix and stimulates release of the hormone oxytocin. Oxytocin travels in the blood and stimulates the uterus to contract. Labor contractions become more and more intense until the baby is expelled. This is an example of
  - A. negative feedback.
  - **<u>B.</u>** positive feedback. C. dynamic equilibrium.
  - D. integration control.
  - E. set point adjustment.

Bloom's Level: 3. Apply Learning Outcome: 01.06.e Define positive feedback and give examples of its beneficial and harmful effects. Section: 01.06 Topic: General

- 54. Which of the following is most likely to cause disease?
  - A. positive feedback
  - B. negative feedback
  - C. homeostasis
  - D. equilibrium
  - E. irritability

Bloom's Level: 1. Remember Learning Outcome: 01.06.e Define positive feedback and give examples of its beneficial and harmful effects. Section: 01.06 Topic: General

55. Blood glucose concentration rises after a meal and stimulates release of the hormone insulin. Insulin travels in the blood and stimulates body cells to uptake glucose from the bloodstream. This reduces blood glucose concentration. This is an example of

<u>A.</u> negative feedback.

- B. positive feedback.
- C. dynamic equilibrium.
- D. integration control.
- E. set point adjustment.

Bloom's Level: 3. Apply Learning Outcome: 01.06.d Define negative feedback, given an example of it, and explain its importance to homeostasis. Section: 01.06 Topic: General

- 56. The \_\_\_\_\_\_ is defined as a healthy male 22 years old, weighing 70 kg (154 lb), under no environmental stress, and consuming 2,800 kilocalories (kcal) per day; whereas the \_\_\_\_\_\_ is the same except for a weight of 58 kg (128 lb) and an intake of 2,000 kcal/day.
  - A. normal man, normal woman
  - B. normal male, normal female
  - C. average man, average woman
  - D. average male, average woman
  - $\underline{\mathbf{E}}_{\bullet}$  reference man, reference woman

Bloom's Level: 1. Remember Learning Outcome: 01.06.b Explain the importance of defining a reference man and woman. Section: 01.06 Topic: General

57. The change in size of the bone marrow (where blood cells are produced) as an infant matures is an example of \_\_\_\_\_\_, whereas the transformation of blood stem cells into white blood cells is an example of \_\_\_\_\_\_

- A. development, differentiation.
- B. growth, development.
- **<u>C.</u>** growth, differentiation.
- D. differentiation, growth.
- E. differentiation, development.

- 58. Three common components of a feedback loop are
  - A. a stimulus, an integrating (control) center, and an organ system.
  - B. a stimulus, a receptor, and an integrating (control) center.
  - **<u>C.</u>** a receptor, an integrating (control) center, and an effector.
  - D. a receptor, an organ, and an organ system.
  - E. a receptor, an integrating (control) center, and an organ system.

Bloom's Level: 2. Understand Learning Outcome: 01.06.c Define homeostasis and explain why this concept is central to physiology. Section: 01.06 Topic: General Negative feedback loops are C. associated with "vicious circles." D. self-amplifying cycles. Bloom's Level: 1. Remember Learning Outcome: 01.06.d Define negative feedback, given an example of it, and explain its importance to homeostasis. Section: 01.06 Topic: General The prefix *hypo*- means , whereas *hyper*- means

> Bloom's Level: 1. Remember Learning Outcome: 01.07.d Break medical terms down into their basic word elements. Section: 01.07 Topic: General

61. The term *fallopian* tube (uterine tube) is an example of

- A. a Latin root used in medical terminology.
- B. the use of prefixes to name an anatomical structure.
- C. the use of suffixes to name an anatomical structure.
- **<u>D.</u>** an eponym.

A. homeostatic. B. not homeostatic.

E. harmful.

A. front. back B. right, left C. inside, outside D. clear, dark E. below, above

59.

60.

E. an acronym.

Bloom's Level: 1. Remember Learning Outcome: 01.07.b Recognize eponyms when you see them. Section: 01.07 Topic: General

#### 62. Hypercalcemia means

- A. elevated calcium levels in blood.
- B. lowered calcium levels in bone.
- C. elevated sodium levels in blood.
- D. elevated calcium levels in bone.
- E. lowered calcium levels in the blood.

Bloom's Level: 1. Remember Learning Outcome: 01.07.d Break medical terms down into their basic word elements. Section: 01.07 Topic: General

The plural of axilla (armpit) is \_\_\_\_\_\_ whereas the plural of appendix is \_\_\_\_\_\_ 63.

- A. axillae; appendices
- B. axillides; appendages
- C. axillies; appendi
- D. axilli; appendices

Bloom's Level: 1. Remember Learning Outcome: 01.07.f Relate singular noun forms to their plural and adjectival forms. Section: 01.07 Topic: General

### 64.

The plural of villus (hair) is \_\_\_\_\_\_ whereas the plural of diagnosis is \_\_\_\_\_\_

- A. villuses, diagnosises.
- **<u>B.</u>** villi, diagnoses.
- C. villus, diagnosis.
- D. villi, diagnosis.
- E. villuses, diagnosis.

Bloom's Level: 1. Remember Learning Outcome: 01.07.f Relate singular noun forms to their plural and adjectival forms. Section: 01.07 Topic: General

- 65. The lexicon of standard international anatomical terms
  - A. is called *Terminologia Anatomica* (TA).
  - B. is called Nomina Anatomica (NA).
  - C. is formed from thousands of English word roots.
  - D. is formed from thousands of Italian word roots.
  - E. is formed from thousands of French word roots.

Bloom's Level: 1. Remember Learning Outcome: 01.07.c Describe the efforts to achieve an internationally uniform anatomical terminology. Section: 01.07

Topic: General

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