Anatomy and Physiology 10th Edition Patton Test Bank

Chapter 01: Organization of the Body

Patton: Anatomy and Physiology, 10th Edition

MULTIPLE C	CHOICE
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1.	Which o	of the	follow	ing des	cribes :	anatomy	/?
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- a. Using devices to investigate parameters such as heart rate and blood pressure
- b. Investigating human structure via dissections and other methods
- c. Studying the unusual manner in which an organism responds to painful stimuli
- d. Examining the physiology of life

ANS: B DIF: Memorization REF: p. 3 TOP: Anatomy and Physiology

- 2. Systemic anatomy is a term that refers to:
 - a. physiological investigation at a microscopic level.
 - b. anatomical investigation that begins in the head and neck and concludes at the feet.
 - c. anatomical investigation that uses an approach of studying the body by systems—groups of organs having a common function.
 - d. anatomical investigation at the molecular level.

ANS: C DIF: Memorization REF: p. 4

TOP: Anatomy and Physiology

- 3. Physiology can be subdivided according to the _____studied.
 - a. type of organism
 - b. organizational level
 - c. systemic function

Anatomy and Physiology 10th Edition Patton Test Bank d. All of the above are correct. ANS: D DIF: Memorization REF: p. 4 TOP: Physiology 4. Physiology: a. recognizes the unchanging (as opposed to the dynamic) nature of things. b. investigates the body's structure. c. is concerned with organisms and does not deal with different levels of organization such as cells and systems. d. is the science that examines the function of living organisms and their parts. ANS: D DIF: Memorization REF: p. 4 TOP: Physiology 5. One of the basic principles of the standardized terminology is the avoidance of_ terms that are based on a person's name. a. homonyms b. antonyms c. eponyms d. synonyms ANS: C REF: p. 5 DIF: Memorization TOP: Language of Science and Medicine 6. *Metabolism* refers to: a. the chemical basis of life. b. the sum of all the physical and chemical reactions occurring in the body. c. an organization of similar cells specialized to perform a certain function. d. a subdivision of physiology. ANS: B TOP: Characteristics of Life DIF: Application REF: p. 5 7. From smallest to largest, the levels of organization of the body are: a. organism, chemical, tissue, cellular, organ, system, organelle. b. chemical, microscopic, cellular, tissue, organ, system, organism. c. organism, system, organ, tissue, cellular, organelle, chemical. d. chemical, organelle, cellular, tissue, organ, system, organism. ANS: D DIF: Memorization REF: p. 6 TOP: Levels of Organization 8. The smallest living units of structure and function in the body are: a. molecules. b. cells. c. organelles. d. atoms. ANS: B DIF: Memorization REF: p. 7 TOP: Levels of Organization 9. An organization of many similar cells that are specialized to perform a certain function is called a(n): a. tissue. b. organism. c. system.

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d. organ.

	ANS: A TOP: Tissue Level	DIF:	Memorization	REF: p. 7
10.	An organ is one orga. system. b. cell. c. organelle. d. tissue.	ganizati	ional level lower than a(n):	
	ANS: A TOP: Organ Level	DIF:	Memorization	REF: p. 7
11.	The reproductive sy a. testes. b. ovaries. c. ureter. d. penis.	vstem i	ncludes all of the following except	t the:
	ANS: C TOP: Body Systems	DIF:	Memorization	REF: p. 8
12.	The lungs are locate a. thoracic cavity. b. mediastinum. c. abdominal cavit d. cranial cavity.		ie:	
	ANS: A TOP: Body Cavities	DIF:	Memorization	REF: p. 12
13.	The mediastinum coa. trachea. b. venae cavae. c. right lung. d. esophagus.	ontains	all of the following except the:	
	ANS: C TOP: Body Cavities	DIF:	Memorization	REF: p. 12
14.	The gallbladder lies a. abdominal cavitb. pelvic cavity.c. dorsal cavity.d. mediastinum.		:	
	ANS: A TOP: Body Cavities		Memorization	REF: p. 13

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15.	The number of abdominal regions is: a. three. b. five. c. seven. d. nine.
	ANS: D DIF: Memorization REF: p. 14 TOP: Abdominopelvic Regions
16.	The abdominal region in which the urinary bladder is found is the: a. hypogastric. b. epigastric. c. right lumbar. d. left iliac.
	ANS: A DIF: Memorization REF: p. 15 TOP: Abdominopelvic Regions
17.	A surgeon removing a gallbladder should know to find it in theregion. a. right lumbar b. right hypochondriac c. hypogastric d. umbilical
	ANS: B DIF: Memorization REF: p. 14 TOP: Abdominopelvic Regions
18.	The abdominal region in which the appendix is found is the: a. hypogastric. b. right iliac. c. right lumbar. d. right hypochondriac.
	ANS: A DIF: Memorization REF: p. 15 TOP: Abdominopelvic Regions
19.	Popliteal refers to the: a. calf. b. ankle. c. cheek. d. area behind the knee.
	ANS: D DIF: Memorization REF: p. 16 TOP: Latin-based Descriptive Terms for Body Regions
20.	A plane through the body that divides the body into right and left sides is called: a. sagittal. b. frontal. c. coronal. d. transverse.
	ANS: A DIF: Memori REF: p. 16 TOP: Body Planes and Sections

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21. The abdominal quadrants are located with what structure as their midpoint?

	a. Umbilicusb. Pubic bonec. Xiphoid processd. Iliac crest		
	ANS: A DIF TOP: Abdominopelvic Qu		REF: p. 13
22.	Humans have similar rig of: a. anatomical position. b. anterior symmetry. c. ipsilateral position. d. bilateral symmetry.	ght and left sides of the body, at leas	st superficially. This is an example
	ANS: D DIF TOP: Anatomical Position		REF: p. 8
23.	Two major cavities of tha. ventral/dorsal. b. inferior/superior.	ne human body are:	
	c. visceral/parietal.d. axial/appendicular.		
	ANS: A DIF TOP: Body Cavities	: Memorization	REF: p. 9
24.	The dorsal cavity containa. brain. b. spinal column. c. spinal cord. d. thyroid gland.	ns all of the following except the:	
	ANS: D DIF TOP: Body Cavities	: Memorization	REF: p. 12
25.	A plane through the boda. sagittal.b. median.c. coronal.d. transverse.	y that divides the body into anterior	r and posterior portions is:
	ANS: C DIF TOP: Body Planes and Se	: Memorization ections	REF: p. 10
26.	The plane that divides that a. sagittal b. frontal c. transverse d. superficial	ne body into upper and lower parts i	s theplane.

Anatomy and Physiology 10th Edition Patton Test Bank ANS: C **DIF:** Memorization REF: p. 11 TOP: Body Planes and Sections 27. A somatotype characterized by having a muscular physique is called a(n): a. endomorph. b. mesomorph. c. ectomorph. d. None of the above is correct. ANS: B DIF: Application REF: p. 17, Connect It TOP: Body Type and Disease 28. A somatotype characterized by a thin, fragile physique is a(n): a. ectomorph. b. mesomorph. c. endomorph. ANS: A DIF: Memorization REF: p. 17, Connect It TOP: Body Type and Disease 29. The abdominopelvic cavity contains all of the following except the: a. kidneys. b. gallbladder. c. right lung. d. urinary bladder. ANS: C REF: p. 13 DIF: Memorization **TOP:** Body Cavities 30. Which of the following is not one of the characteristics of life? a. Digestion b. Balance c. Conductivity d. Circulation e. Reproduction

ANS: B DIF: Memorization REF: p. 5

TOP: Characteristics of Life

31. An idea that is supported by repeated experiments and observation is called a:

- a. fact.
- b. theory.
- c. concept.
- d. hypothesis.

ANS: B DIF: Memorization REF: p. 3

TOP: Science and Society

32. *Molecules* are:

a. atoms combined to form larger chemical aggregates.

b. electrons orbiting nuclei.

Anatomy and Physiology 10th Edition Patton Test Bank a complex of electrons arranged in concentric shells. d. composed of cellular organelles. ANS: A REF: p. 6 DIF: Memorization TOP: Chemical Level: Basis for Life 33. Mitochondria, Golgi apparatus, and endoplasmic reticulum are examples of: a. molecules. b. cytoplasm. c. organelles. d. plasma membranes. ANS: C DIF: Memorization REF: p. 7 TOP: Levels of Organization 34. When many similar cells specialize to perform a certain function, it is referred to as a(n): a. tissue. b. organelle. c. organ system complex. d. organism. REF: p. 7 ANS: A DIF: Memorization TOP: Tissue Level 35. Several kinds of tissues working together are termed a(n): a. plasma membrane. b. organ. c. organism. d. organ system. ANS: B DIF: Memorization REF: p. 7 TOP: Organ Level 36. Blood production is a function of which system? a. Reproductive b. Respiratory c. Skeletal d. Lymphatic ANS: C DIF: Memorization REF: p. 7 TOP: System Level 37. The dorsal cavity contains the: a. brain and spinal cord. b. heart and lungs. c. reproductive organs. d. digestive organs. ANS: A DIF: Memorization REF: p. 12 **TOP:** Body Cavities 38. The ventral cavity contains the:

a. thoracic and abdominopelvic cavities.

b. heart and lungs only. c. digestive and reproductive organs. d. brain and spinal cord. ANS: A DIF: Memorization REF: p. 12 **TOP:** Body Cavities 39. The axial portion of the body consists of the: a. arms, neck, and legs. b. neck, torso, and arms. c. torso, arms, legs, and head. d. head, neck, and torso. ANS: D DIF: Memorization REF: p. 15 **TOP:** Body Regions 40. The abdominopelvic cavity contains all of the following except the: a. stomach. b. pancreas. c. heart. d. reproductive organs. ANS: C DIF: Memorization REF: p. 13 **TOP:** Body Cavities 41. Visceral peritoneum would cover which of the following organs? a. Heart b. Intestines c. Lungs d. Spinal cord ANS: B DIF: Memorization REF: p. 13 **TOP:** Body Cavities 42. A sagittal section divides the body into _____portions. a. upper and lower b. right and left c. front and back d. proximal and distal DIF: Memorization REF: p. 10 TOP: Body Planes and Sections 43. A frontal section divides the body into portions. a. upper and lower b. right and left c. front and back d. cortex and medullary ANS: C DIF: Memorization REF: p. 10 TOP: Body Planes and Sections 44. Axilla is a term referring to which body region? a. Anterior elbow b. Armpit c. Posterior knee d. Groin btestbanks.com

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Anatomy and Physiology 10th Edition Patton Test Bank ANS: B DIF: Memorization REF: p. 15 TOP: Latin-based Descriptive Terms for Body Regions 45. The tissue is not a major tissue of the body. a. cutaneous b. epithelial c. connective d. nervous ANS: A DIF: Memorization REF: p. 7 TOP: Tissue Level 46. "Apple-shaped" and "pear-shaped" usually describe subtypes of what major body type? a. Mesomorph b. Ectomorph c. Endomorph d. Polymorph ANS: C DIF: Memorization REF: p. 17, Connect It TOP: Body Type and Disease 47. An organ is one organizational level higher than a(n): a. system. b. cell. c. organelle. d. tissue. ANS: D DIF: Memorization REF: p. 7 TOP: Organ Level 48. Which of the following does not describe anatomical position? a. Head pointing forward b. Body standing erect c. Arms extended from the shoulders, palms up d. All of the above describe the body in the anatomical position. ANS: C DIF: Memorization REF: p. 9 **TOP: Anatomical Position** 49. Someone studying gross anatomy would not study which of the following? The location of the heart and chambers of the heart b. Muscles of the arms and legs c. The nucleus of the cell d. All of the above would be studied. DIF: Memorization ANS: C REF: p. 4 TOP: Anatomy 50. The parietal pleura covers the a. lungs. b. heart. c. walls of the thoracic cavity.

ANS: C DIF: Memorization REF: p. 13
TOP: Body Cavities btestbanks.com

d. Both A and B are correct.