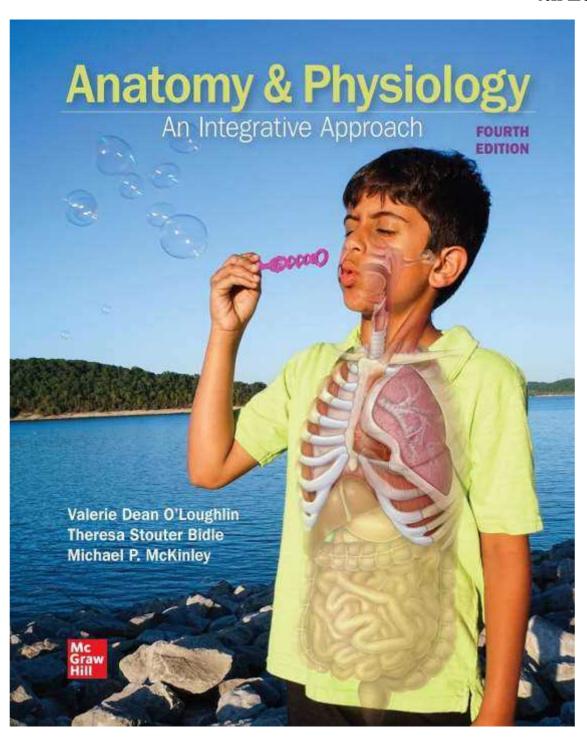
TEST BANK

Anatomy & Physiology An Integrative Approach

Michael McKinley, Valerie O'Loughlin, Theresa Bidle

4th Edition



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	Chapter 01
The Sciences of Anatomy a	nd Physiology

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- 1) If a scientist forms and tests a hypothesis, but gets unexpected results, what is a logical next step? Check all that apply.
 - A) Accept the original hypothesis
 - B) Reject the original hypothesis
 - C) Revise the original hypothesis
 - D) Design a new experiment based on a new or modified hypothesis.
- 2) Some researchers think pheromones are important tools in human communication. Pheromones are chemical signals that one individual sends to another. What research questions might be asked by anatomists, and what questions might be asked by physiologists, to determine if pheromones are important to humans?

3) Iron atoms help our blood transport oxygen. Describe each level of anatomical structural complexity for an iron atom in your blood, working from the simplest level (atom) to the most complex (organism).

positiv	If someone speaks too loudly into a microphone, a public address system will sometimes e a loud whistle of amplified feedback. Explain whether this is an example of negative or e feedback, and explain how the microphone, control box, and speaker of the system serve different components of a feedback loop.
5) across	The discipline known as anatomy examines similarities and differences species.
6) impuls	The discipline that studies the functions of the nervous system, including the way that es are conducted, is known as
7) known	The discipline that associates changes in organ system function with disease or injury is as
8) ones is	The group of metabolic reactions in which smaller molecules are combined to form larger -
9)	Specialized subunits of cells that are made of macromolecules are called

10) immu	The organ system that transports and filters interstitial fluid while also participating in ne responses is thesystem.
11) systen	The pituitary, thyroid, and adrenal glands are typically grouped within then.
12) quadra	The appendix is in the right iliac region, and is therefore located in theant.
13)	The level of organization one step more complex than the organ level is thelevel.
14)	The state of equilibrium, or fairly constant interval environment, in the body is called
15)	Thereproductive system produces oocytes.
16)	The antecubital region isto the brachial region.

17)	The muscular partition that separates the thoracic and abdominopelvic cavities is the
thora	cic
18)	The hypogastric region is locatedto the right iliac region.
19)	Sensory nerves that detect changes in a variable that is being regulated comprise the of the control mechanism.
20) relays	In a homeostatic control mechanism, the receptor detects changes in the environment and s that information to the
21)	The reinforcement of a stimulus so that a climax is reached is known as
22)	The word "anatomy" comes from A) Latin and means "to be born." B) Hebrew and means "shape." C) Greek and means "to cut apart." D) German and means "body." E) Italian and means "form."
23) surro	A scientist who describes the layers of the heart wall and their relationship to the unding pericardium would be a(n)

	A)	anatomist.
	B)	physiologist.
	C)	pathologist.
	D)	pulmonologist.
24)		anatomy examines both superficial anatomic markings and internal body
structu		as they relate to the skin covering them.
	A)	Decisional
	- 1	Regional Surface
		Radiographic
		Surgical
		Systemic
	L)	Systemic
25)	11 71	ich hannah of mionogonia anatomy is the study of tissues?
25)	W n	ich branch of microscopic anatomy is the study of tissues?
	A)	Histology
	B)	Cytology
	C)	Embryology
	D)	Developmental anatomy
	E)	Surgical anatomy
26)	Gro	oss anatomy refers to the study of
	4.	11
	A)	cells.
	B)	structures formedby cells.
	C)	structures notvisible to the unaided eye.
	D)	structures visibleto the unaided eye.
	E)	nasalsecretions.

27)	The anatomic changes that result from disease are studied under
	A) pathologicanatomy.
	B) systemicanatomy.
	C) histology.
	D) surgicalanatomy.
	E) developmentalanatomy.
28)	The two main divisions of microscopic anatomy are
	A) embryology andparasitology.
	B) cytology andhistology.
	C) comparativeanatomy and pathological anatomy.
	D) neurobiology and surface anatomy.
29) unit(fo	When medical students study all of the structures in a particular area of the body as a or example, all the muscles, blood vessels, and nerves of the leg), that approach is called
	A) surfaceanatomy.
	B) comparative anatomy.
	C) poplitealphysiology.
	D) regionalanatomy.
	E) systemicanatomy.
30)	The scientific discipline that studies the functions of body structures is
	A) anatomy.
	B) physiology.

- 31) Which is a physiological description rather than an anatomical one?
 - A) The muscles of theintestinal wall contract slowly and involuntarily.
 - B) The walls of bloodcapillaries are composed of a thin epithelium.
 - C) The muscles of thethigh are composed of skeletal muscle tissue.
 - D) There are fenestrations (openings) in the epithelial cells of capillary walls.
 - E) The esophageal wallincludes a middle layer of dense irregular connective tissue.
- 32) Respiratory physiology is primarilythe study of
 - A) cell shape withinthe alveoli of the lungs.
 - B) the branchingpattern of the small airways of the lungs.
 - C) the tissuecomposition of the airways, air sacs, and blood vessels.
 - D) how gases are transferred between the lungs and the blood vessels supplying them.
- 33) The large surface area of the inside of the small intestine means that this structure is
 - A) well adapted forits physiological role in absorption.
 - B) derived from an embryological structure that served a different function.
 - C) anatomically complex but physiologically simple.
 - D) maladaptive inthat it harbors bacteria.
- 34) The mechanism by whichthe body propels food through the digestive tract is primarily a topic of study for
 - A) anatomists.
 - B) physiologists.

35)	The	term that refers to the ability of organisms to react to changes in the environment is
	A)	responsiveness.
	B)	reproduction.
	C)	metabolism.
	D)	development.
	E)	organization.
36)	The	various chemical reactions that organisms carry out are collectively called
	A)	reproduction.
	B)	homeostasis.
	C)	metabolism.
	D)	responsiveness.
	E)	development.
37) known		category of reactions in which larger molecules are broken down into smaller ones is
	A)	anabolism.
	B)	catabolism.
	C)	synthesis.
		homeostasis.
	E)	enzymatic.
38)	The	e smallest structural unit that exhibits the characteristics of living things is

	 A) an organ. B) an individual. C) tissue. D) a cell. E) a system.
39)	Which level consists of related organs that work to achieve a common function?
	 A) Organ system level B) Cellular level C) Tissue level D) Chemical level E) Organ level
40)	At what level of organization is a tooth, which contains multiple tissue types?
	 A) Tissue level B) Cell level C) Organ level D) System level E) Atomic level
41)	Which of the following statements accurately describes the organization of structures?

- A) Organs are made upof tissues, which are made up of cells, which are made up of organelles andmolecules.
- B) Tissues are madeup of organs, which are made up of cells, which are made up of individualatoms.
- C) Organisms are madeup of tissues, which are made up of organ systems, which are made up of DNA.
- D) Organ systems are made up of cells, which are made up of tissues, which are made up of organelles.
- E) Organs are made up of cells, which are made up of atoms, which are made up of molecules.
- 42) Which system is responsible for providing protection, regulating body temperature, and being the site of cutaneous receptors?
 - A) Respiratory
 - B) Muscular
 - C) Integumentary
 - D) Urinary
 - E) Nervous
- The body system that provides support and protection as well as being a site of blood cell production (hemopoiesis) is the ______ system.
 - A) skeletal
 - B) muscular
 - C) cardiovascular
 - D) respiratory
 - E) lymphatic