ANATOMY FLASHCARDS - CHAPTER 2

Cells, Tissues and Body Organization

Corrina R. Lynch | Cover the answer to practice. Cut on horizontal lines; fold at the center line.

QUESTION / TERM	ANSWER / EXPLANATION
2-01 **What is a cell?**	The smallest living structural and functional unit of the body.
2-02 **What is the plasma membrane?**	The cell's boundary. It helps regulate what enters and leaves the cell.
2-03 **What is the nucleus?**	A cell structure that contains most of the cell's DNA and helps regulate cell activities.
2-04 **What is cytoplasm?**	The material between the plasma membrane and nucleus, including cytosol and organelles.
2-05 **What do mitochondria do?**	Produce much of the ATP that cells use to support their activities.

Source alignment: Anatomy for Coders Instructor Guide, Chapter 2, pp. 6-7.

Supplementary reference: OpenStax, Anatomy and Physiology 2e (openstax.org). Original review wording.

Study aid for anatomy review. Course chapter numbers follow your Anatomy for Coders guide.

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QUESTION / TERM	ANSWER / EXPLANATION
2-06 **What is a tissue?**	A group of cells and associated material organized to perform related functions.
2-07 **What are the four primary tissue types?**	Epithelial, connective, muscle, and nervous tissue.
2-08 **What does epithelial tissue do?**	Covers surfaces, lines cavities and passageways, and forms glands. It can protect, absorb, or secrete.
2-09 **What does connective tissue do?**	Supports, binds, protects, stores energy, or transports substances. Examples include bone, cartilage, fat, and blood.
2-10 **What does muscle tissue do?**	Contracts to produce movement. The three types are skeletal, cardiac, and smooth muscle.

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QUESTION / TERM	ANSWER / EXPLANATION
2-11 **What does nervous tissue do?**	Detects and communicates information. It includes neurons and supporting cells.
2-12 **Why is blood connective tissue?**	Its cells are suspended in a fluid extracellular matrix called plasma.
2-13 **What is adipose tissue?**	Connective tissue that stores fat and provides cushioning, insulation, and energy reserves.
2-14 **What is extracellular matrix?**	Material outside cells, such as fibers and ground substance, that helps support and organize tissues.
2-15 **What is an organ?**	A structure made of two or more tissue types working together. The heart is an example.

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QUESTION / TERM	ANSWER / EXPLANATION
2-16 **What is an organ system?**	A group of organs that work together to perform major body functions.
2-17 **What is the order of body organization?**	Cell, tissue, organ, organ system, organism. Chemical components exist below the cellular level.
2-18 **Skeletal, cardiac, and smooth muscle: where?**	Skeletal muscle moves the skeleton. Cardiac muscle forms the heart's muscular wall. Smooth muscle occurs in walls of hollow organs and vessels.
2-19 **What is histology?**	The study of tissues, especially their microscopic structure.
2-20 **What does a pathology report help identify?**	Tissue characteristics and findings such as tissue origin and lesion behavior. Apply the documentation rules for the coding setting before assigning a diagnosis.

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