

Free HESI A2 Practice Test Anatomy and Physiology

Section: HESI A2 Anatomy and Physiology Exams • Total Questions: 10 • Format: Verified Q&A

1. Which tissue serves as the framework of the body by providing support and structure for the organs?

- (A) Epithelial
 - (B) Connective
 - (C) Nervous
 - (D) Muscle
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2. What is the basic unit of life and the building block of tissues and organs?

- (A) Atom
 - (B) Organelle
 - (C) Cell
 - (D) DNA
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3. Which of the following are functions of the skeletal system? (Select one that does not apply.)

- (A) Support the body
 - (B) Hemopoiesis
 - (C) Conduct impulses
 - (D) Provide protection
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4. What is responsible for the formation of fingerprints?

- (A) Dermal papillae
 - (B) Merkel cells
 - (C) Arrector pili
 - (D) Sudoriferous glands
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5. A tissue examined under the microscope exhibits the following characteristics: cells found on the internal surface of the stomach, no extracellular matrix, cells are tall and thin, and no blood vessels are present in the tissue. What type of tissue is this?

- (A) Epithelial
 - (B) Connective
 - (C) Muscle
 - (D) Cartilage
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6. Where are all the nutrients that enter the hepatic portal vein routed for processing?

- (A) Kidneys
 - (B) Pancreas
 - (C) Spleen
 - (D) Liver
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7. Which compound is associated with a burning sensation as a result of anaerobic respiration?

- (A) Carbon dioxide
 - (B) Lactic acid
 - (C) Oxygen
 - (D) Glucose
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8. What substance makes up the pads that provide support between the vertebrae?

- (A) bone
 - (B) cartilage
 - (C) tendon
 - (D) fat
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9. Which type of joint within the synovial category is the elbow classified as?

- (A) Pivot
 - (B) Hinge
 - (C) Ball and socket
 - (D) Toddle
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10. What are chemical messengers that control growth, differentiation, and the metabolism of specific target cells called?

- (A) Hormones
 - (B) Neurons
 - (C) Glands
 - (D) Second messengers
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