

HESI A2 Entrance Exam Biology

Section: HESI A2 Biology Exams • Total Questions: 10 • Format: Verified Q&A

1. What is the purpose of cellular respiration?

- (A) Enable fermentation
 - (B) Produce enzymes
 - (C) Produce oxygen molecules
 - (D) Obtain energy in the form of ATP
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2. Why is homeostasis necessary?

- (A) To maintain temperature
 - (B) To maintain pH
 - (C) To maintain glucose levels
 - (D) All of the above
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3. Which method of glucose conversion generates the most usable and efficient form of ATP within the human body?

- (A) Aerobic respiration
 - (B) Anaerobic respiration
 - (C) Lactic acidosis
 - (D) Fermentation conversion
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4. If the zygomatic arch is broken, where is the fracture located?

- (A) Face
 - (B) Knee
 - (C) Shoulder
 - (D) Wrist
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5. Of all the molecules that are significant to biology, which of the following are considered the most important?

- (A) Carbohydrates, lipids, protein, and nucleic acids
 - (B) Carbohydrates, lipids, protein, and calcium
 - (C) Carbohydrates, lipids, protein, and sulfur
 - (D) Carbohydrates, lipids, protein, and iron
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6. A pencil measures 8 cm long. What is this length in mm?

- (A) 80 mm
 - (B) 800 mm
 - (C) 8 mm
 - (D) 0.8 mm
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7. Why is homeostasis necessary?

- (A) It maintains temperature.
 - (B) It maintains pH.
 - (C) It maintains glucose levels.
 - (D) All of the above.
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8. What are the three types of muscle tissue?

- (A) Cardiac, spinal, stomach
 - (B) Smooth, skeletal, cardiac
 - (C) Neuron, epithelial, collagen
 - (D) None of the above
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9. Which of the following is not an RNA base?

- (A) Adenine
 - (B) Thymine
 - (C) Uracil
 - (D) Cytosine
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10. Select the two bases that are purines:

- (A) A
 - (B) C
 - (C) T
 - (D) N
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