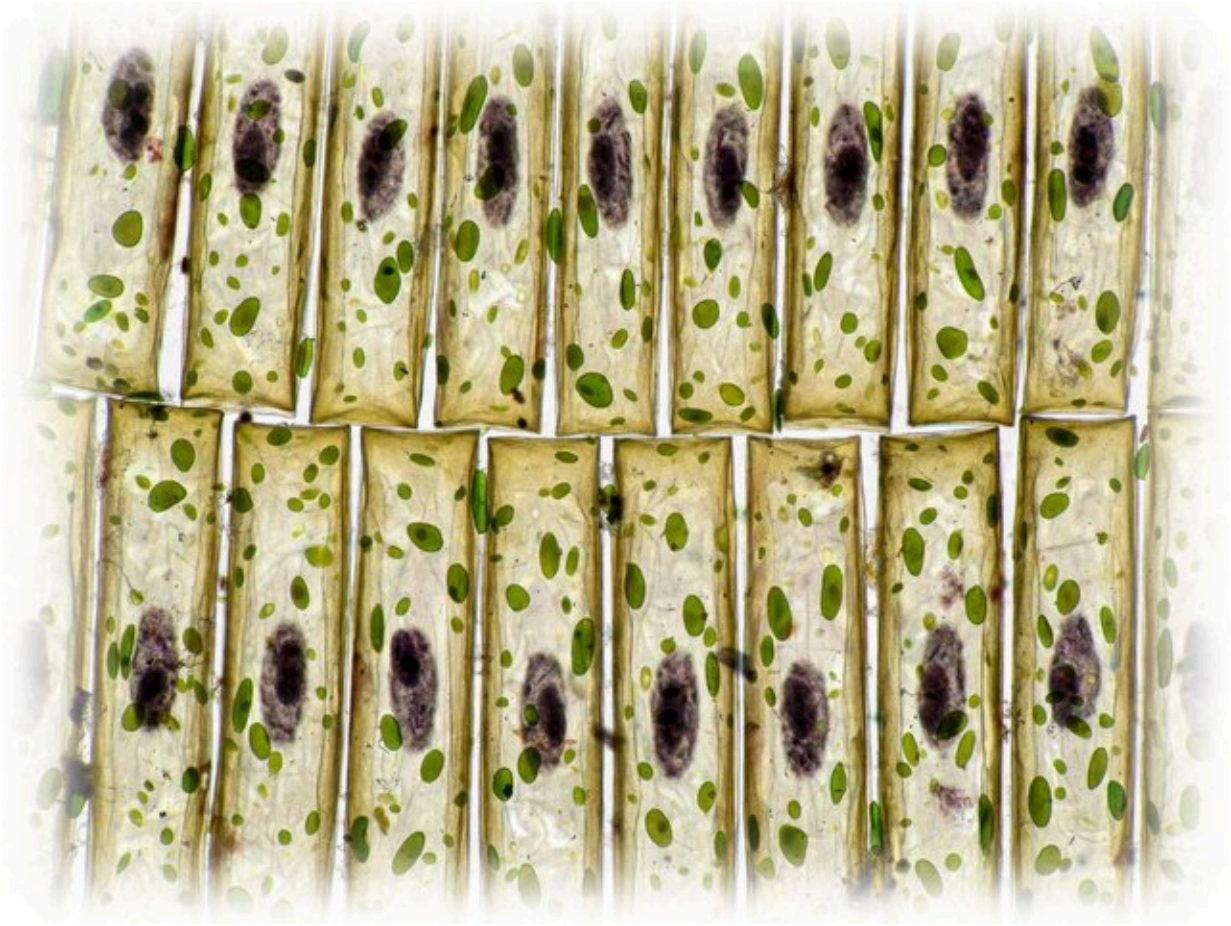
DELAWARE BIOLOGY · UNIT 1 · 10 QUESTIONS

Cells and Molecular Biology — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Which term is defined as follows: the molecule that stores and releases usable energy in cells?**



A cell membrane

B mitochondrion

C ATP

D nucleus

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2 **Which of the following is an example of ATP?**

A a gate that lets some molecules pass

B a power plant inside the cell

C a library holding the cell instructions

D a rechargeable battery for the cell

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3 **Which statement best describes ATP?**

A ATP releases energy when a phosphate group is removed

B the membrane is selectively permeable, not fully open or closed

C mitochondria carry out cellular respiration to release usable energy

D the nucleus directs cell activity through its genetic instructions

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4 **Which term is defined as follows: the process that uses light to build sugars from carbon dioxide and water?**



A cell membrane

B mitochondrion

C nucleus

D photosynthesis

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5 **Which of the following is an example of photosynthesis?**

A plants making food from sunlight

B a gate that lets some molecules pass

C a power plant inside the cell

D a library holding the cell instructions

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6 **Which statement best describes photosynthesis?**

A the membrane is selectively permeable, not fully open or closed

B photosynthesis stores light energy in chemical bonds

C mitochondria carry out cellular respiration to release usable energy

D the nucleus directs cell activity through its genetic instructions

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7 **Which term is defined as follows: the process that releases energy from sugars using oxygen?**

A cellular respiration

B cell membrane

C mitochondrion

D nucleus

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8 **Which of the following is an example of cellular respiration?**

A a gate that lets some molecules pass

B breaking down sugar to release energy

C a power plant inside the cell

D a library holding the cell instructions

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9 **Which statement best describes cellular respiration?**

A the membrane is selectively permeable, not fully open or closed

B mitochondria carry out cellular respiration to release usable energy

C cellular respiration produces carbon dioxide, water, and ATP

D the nucleus directs cell activity through its genetic instructions

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10 **Which term is defined as follows: the idea that all living things are made of cells?**

A cell membrane

B cell theory

C mitochondrion

D nucleus

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ANSWER KEY

1. C
2. D
3. A
4. D
5. A
6. B
7. A
8. B
9. C
10. B

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