DELAWARE BIOLOGY · UNIT 1 · 5 QUESTIONS

Cells and Molecular Biology — Practice Test

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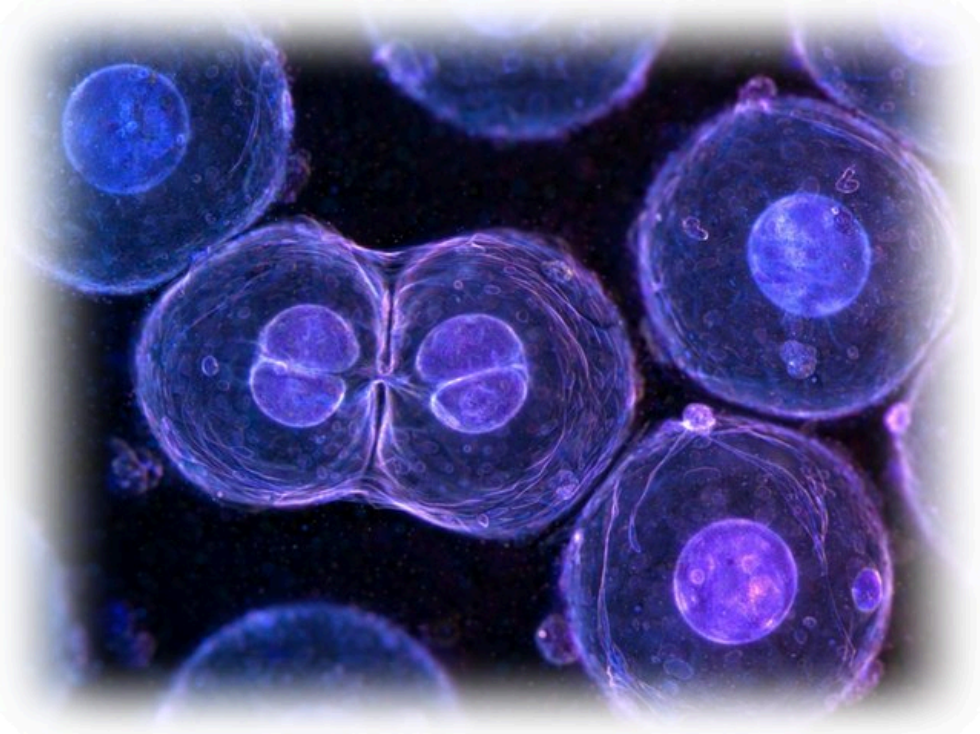
1

A microscope view shows cells dividing, round cells with visible nuclei in blue and purple tones. Which of the following is an example of active transport?



A a gate that lets some molecules pass

B pumping molecules uphill with energy

C a power plant inside the cell

D a library holding the cell instructions

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2 **Which statement best describes active transport?**

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

B mitochondria carry out cellular respiration to release usable energy

C active transport uses ATP to move substances against their gradient

D the nucleus directs cell activity through its genetic instructions

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3 **Which term is defined as follows: a protein that speeds up a chemical reaction?**

A cell membrane

B enzyme

C mitochondrion

D nucleus

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4 **Which of the following is an example of enzyme?**

A a gate that lets some molecules pass

B a power plant inside the cell

C a catalyst that lowers activation energy

D a library holding the cell instructions

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5 **Which statement best describes enzyme?**

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

B mitochondria carry out cellular respiration to release usable energy

C the nucleus directs cell activity through its genetic instructions

D enzymes are not used up by the reactions they speed up

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ANSWER KEY

1. B
2. C
3. B
4. C
5. D

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