PENNSYLVANIA BIOLOGY · UNIT 1 · 5 QUESTIONS

Cells and Molecular Biology — Practice Test

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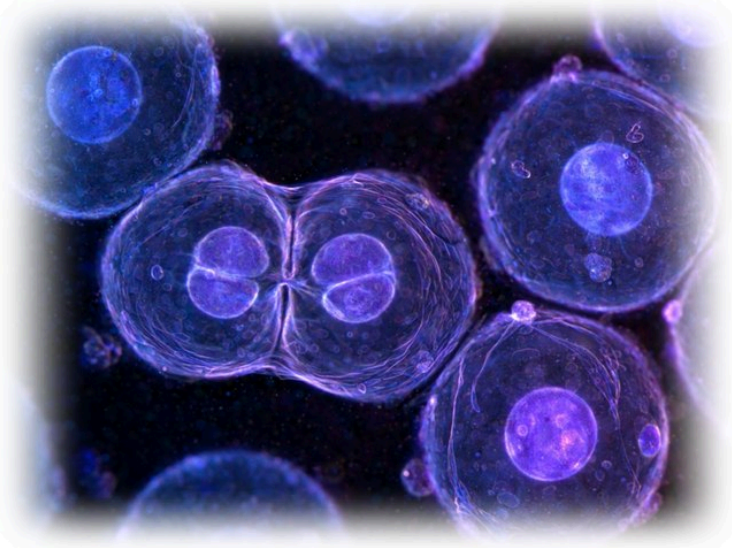
1 **A microscope view shows cells dividing, round cells with visible nuclei in blue and purple tones. The network of protein fibers that gives a cell its shape and helps it move is the**



A. Cytoskeleton

B. Cell wall

C. Nucleolus

D. Chloroplast

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2 **Rough endoplasmic reticulum is covered with ribosomes and helps make**

A Lipids

B Proteins

C DNA

D ATP

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3 **Facilitated diffusion differs from simple diffusion because it uses**

A ATP energy

B Light energy

C Membrane proteins

D Heat energy

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4 **An animal cell placed in a hypertonic solution will most likely**

- A Swell and burst
- B Stay the same size
- C Divide rapidly
- D Shrivel as water leaves

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5 **Endocytosis is a process by which a cell**

- A Takes in material by folding its membrane inward
- B Releases material in vesicles
- C Divides its nucleus in two
- D Makes ATP from glucose

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ANSWER KEY

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

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