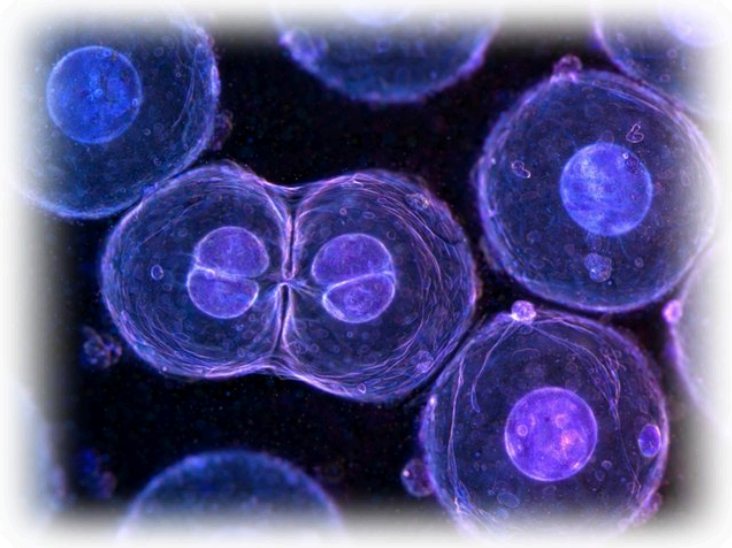
NEBRASKA BIOLOGY · UNIT 1 · 5 QUESTIONS

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 **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

Understand It with Pulse | Flag a mistake

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

A Lipids

B Proteins

C DNA

D ATP

Understand It with Pulse | Flag a mistake

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

A ATP energy

B Light energy

C Membrane proteins

D Heat energy

Understand It with Pulse | Flag a mistake

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

Understand It with Pulse | Flag a mistake

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

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.