ARIZONA 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 **When the solute concentration is equal inside and outside a cell, the solution outside the cell is**

- A Hypertonic
- B Hypotonic
- C Saturated
- D Isotonic

Understand It with Pulse | Flag a mistake

2 **A white blood cell releases enzymes by fusing a vesicle with its plasma membrane in a process called**

- A Diffusion
- B Osmosis
- C Endocytosis
- D Exocytosis

Understand It with Pulse | Flag a mistake

3 **As a cell grows larger, its volume grows faster than its surface area, so its surface area to volume ratio**

- A Doubles each hour
- B Increases
- C Decreases
- D Stays the same

Understand It with Pulse | Flag a mistake

4 **ATP is converted to ADP when a phosphate group is removed and the energy released is used for**

A Cell work

B DNA replication only

C Photosynthesis only

D Cell wall building only

Understand It with Pulse | Flag a mistake

5 **In cellular respiration, glucose is broken down and the energy released is stored mainly as**

A DNA

B Starch

C Oxygen

D ATP

Understand It with Pulse | Flag a mistake

6 **Photosynthesis takes place in chloroplasts and produces glucose and oxygen from carbon dioxide, water, and**

- A ATP only
- B Soil minerals
- C Light energy
- D Nitrogen gas

Understand It with Pulse | Flag a mistake

7 **Yeast carrying out fermentation without oxygen produces carbon dioxide and**

- A Lactic acid only
- B Ethanol
- C Oxygen
- D Glucose

Understand It with Pulse | Flag a mistake

8 **During interphase a cell grows, carries out its normal functions, and copies its**

- A DNA
- B Cell wall
- C Ribosomes only
- D ATP only

Understand It with Pulse | Flag a mistake

9 **Uncontrolled cell division can form a mass of cells called a**

- A Vacuole
- B Chromosome
- C Organelle
- D Tumor

Understand It with Pulse | Flag a mistake

10 **A single bacterial cell divides by binary fission three times with no cells dying How many cells result**

ANSWER

Understand It with Pulse | Flag a mistake

## ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.