INDIANA 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 **The main component of a cell membrane is a**

- A Protein sheet
- B Phospholipid bilayer
- C Cellulose wall
- D Starch layer

Understand It with Pulse | Flag a mistake

2 **When ATP loses one phosphate group it becomes ADP and releases**

- A Glucose
- B Oxygen
- C Energy
- D Carbon dioxide

Understand It with Pulse | Flag a mistake

3 **Joining small molecules into a larger molecule by removing water is called**

A Hydrolysis

B Diffusion

C Osmosis

D Dehydration synthesis

Understand It with Pulse | Flag a mistake

4 **Breaking a large molecule apart by adding water is called**

A Hydrolysis

B Synthesis

C Replication

D Translation

Understand It with Pulse | Flag a mistake

5 **Unlike RNA DNA normally has which base instead of uracil**

A Adenine

B Thymine

C Guanine

D Cytosine

Understand It with Pulse | Flag a mistake

6 **In a eukaryotic cell transcription takes place in the**

A Ribosome

B Lysosome

C Nucleus

D Golgi apparatus

Understand It with Pulse | Flag a mistake

7 **After mitosis each daughter cell normally has the same number of chromosomes as the**

A Gamete

B Egg cell

C Sperm cell

D Parent cell

Understand It with Pulse | Flag a mistake

8 **A human body cell has 46 chromosomes A human gamete formed by meiosis normally has**

ANSWER _____

Understand It with Pulse | Flag a mistake

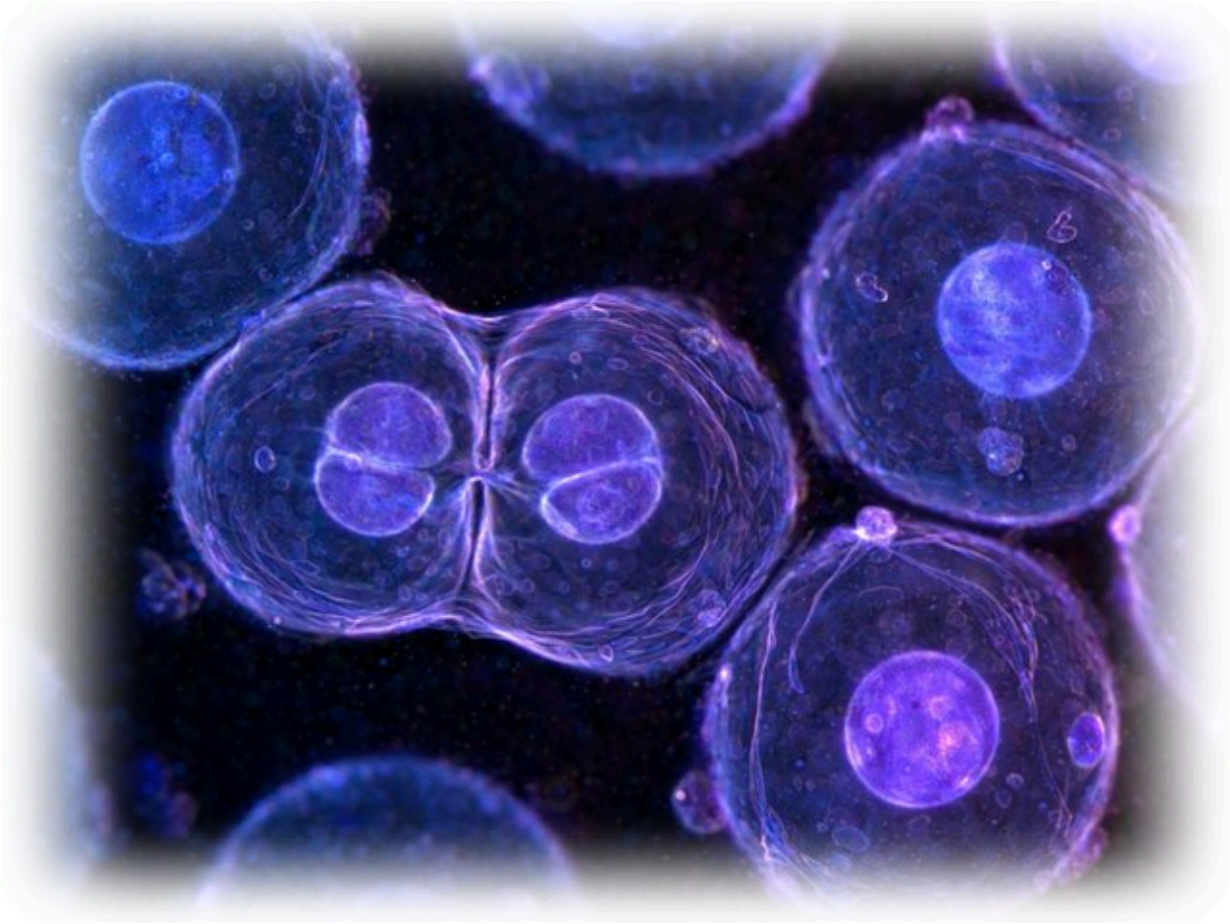
9 **A DNA sample is 30 percent adenine Because adenine pairs with thymine what percent is thymine**



ANSWER

Understand It with Pulse | Flag a mistake

10 **Which cell type has a cell wall made of cellulose**



A Animal cell

B Plant cell

C Red blood cell

D Nerve cell

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. B
2. C
3. D
4. A
5. B
6. C
7. D
8. 23
9. 30
10. B

© 2026 Brett Robbins. All Rights Reserved.