VIRGINIA BIOLOGY · UNIT 1

Cells and Molecular Biology — Practice Test

Virginia Biology • 10 questions

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

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