CALIFORNIA BIOLOGY · UNIT 1 · 10 QUESTIONS

Molecules to Organisms: Structure, Function, and Energy Flow — 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 monomer of a nucleic acid is a**

- **A** Nucleotide
- **B** Glycerol
- **C** Monosaccharide
- **D** Amino acid

Understand It with Pulse | Flag a mistake

2 **DNA differs from RNA in that DNA normally is**

A Single stranded with uracil

B Found only in ribosomes

C Double stranded with thymine

D Made of amino acids

Understand It with Pulse | Flag a mistake

3 **In DNA, adenine pairs with**

A Thymine

B Cytosine

C Uracil

D Guanine

Understand It with Pulse | Flag a mistake

4 **Transcription produces**

A A new DNA molecule

B Amino acids

C A protein directly

D Messenger RNA from a DNA template

Understand It with Pulse | Flag a mistake

5 **Translation takes place at the**

A Lysosome

B Golgi body

C Nucleus

D Ribosome

Understand It with Pulse | Flag a mistake

6 **A codon is a sequence of**

A 3 bases

B 2 bases

C 4 amino acids

D 20 bases

Understand It with Pulse | Flag a mistake

7 **The overall equation for photosynthesis can be summarised as carbon dioxide plus water, using light energy, giving glucose plus**

A Oxygen

B Methane

C Nitrogen

D Hydrogen gas

Understand It with Pulse | Flag a mistake

8 **A plant kept in darkness for a long time will eventually stop growing because it cannot**

- A Absorb water
- B Take in minerals
- C Carry out photosynthesis to make sugars
- D Respire at all

Understand It with Pulse | Flag a mistake

9 **In a human, the feedback loop that controls body temperature is an example of**

- A Positive feedback only
- B Fermentation
- C Homeostasis
- D Differentiation

Understand It with Pulse | Flag a mistake

10 **A human skin cell has 46 chromosomes After mitosis, each daughter skin cell normally has how many chromosomes**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. A
2. C
3. A
4. D
5. D
6. A
7. A
8. C
9. C
10. 46

© 2026 Brett Robbins. All Rights Reserved.