CONNECTICUT BIOLOGY · UNIT 1 · 25 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

Which term matches this description: the organelle producing most of a cell ATP

- A Mitochondrion
- B Ribosome
- C Nucleus
- D Cell membrane

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2 **Which term matches this description: the organelle assembling proteins from amino acids**

- A Nucleus
- B Ribosome
- C Cell membrane
- D Golgi apparatus

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3 **Which term matches this description: the organelle storing most DNA in a eukaryotic cell**

- A Cell membrane
- B Golgi apparatus
- C Nucleus
- D Lysosome

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4 **Which term matches this description: the structure controlling what enters and leaves a cell**

A Golgi apparatus

B Lysosome

C Chloroplast

D Cell membrane

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5 **Which term matches this description: the organelle packaging proteins for transport**

A Golgi apparatus

B Lysosome

C Chloroplast

D Central vacuole

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6 **Which term matches this description: the organelle breaking down worn out cell parts**

- A Chloroplast
- B Lysosome
- C Central vacuole
- D Cytoskeleton

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7 **Which term matches this description: the organelle where photosynthesis takes place**

- A Central vacuole
- B Cytoskeleton
- C Chloroplast
- D Endoplasmic reticulum

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8 **Which term matches this description: the large organelle storing water in a plant cell**

- A Cytoskeleton
- B Endoplasmic reticulum
- C Cell theory
- D Central vacuole

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9 **Which term matches this description: the network giving a cell its shape**

- A Cytoskeleton
- B Endoplasmic reticulum
- C Cell theory
- D Diffusion

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10 **Which term matches this description: the network transporting materials inside a cell**

- A Cell theory
- B Endoplasmic reticulum
- C Diffusion
- D Osmosis

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11 **Which term matches this description: the idea that all living things are made of cells**

- A Diffusion
- B Osmosis
- C Cell theory
- D Active transport

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12 **Which term matches this description: movement from high to low concentration**

A Osmosis

B Active transport

C Enzyme

D Diffusion

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13 **Which term matches this description: diffusion of water across a membrane**

A Osmosis

B Active transport

C Enzyme

D Active site

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14 **Which term matches this description: movement against a gradient using ATP**

- A Enzyme
- B Active transport
- C Active site
- D Denaturation

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15 **Which term matches this description: a protein speeding up a chemical reaction**

- A Active site
- B Denaturation
- C Enzyme
- D DNA

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16 **Which term matches this description: the part of an enzyme where a substrate binds**

A Denaturation

B DNA

C Transcription

D Active site

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17 **Which term matches this description: loss of enzyme shape from heat or pH change**

A Denaturation

B DNA

C Transcription

D Translation

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18 **Which term matches this description: the molecule carrying genetic instructions**

A Transcription

B DNA

C Translation

D Mitochondrion

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19 **Which term matches this description: copying a DNA sequence into messenger RNA**

A Translation

B Mitochondrion

C Transcription

D Ribosome

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20 **Which term matches this description: building a protein from messenger RNA**

A Mitochondrion

B Ribosome

C Nucleus

D Translation

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21 **Which statement about Mitochondrion is correct**

A the organelle producing most of a cell ATP

B the organelle assembling proteins from amino acids

C the organelle storing most DNA in a eukaryotic cell

D the structure controlling what enters and leaves a cell

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22 **Which statement about Ribosome is correct**

A the organelle storing most DNA in a eukaryotic cell

B the organelle assembling proteins from amino acids

C the structure controlling what enters and leaves a cell

D the organelle packaging proteins for transport

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23 **Which statement about Nucleus is correct**

A the structure controlling what enters and leaves a cell

B the organelle packaging proteins for transport

C the organelle storing most DNA in a eukaryotic cell

D the organelle breaking down worn out cell parts

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24 **Which statement about Cell membrane is correct**

- A the organelle packaging proteins for transport
- B the organelle breaking down worn out cell parts
- C the organelle where photosynthesis takes place
- D the structure controlling what enters and leaves a cell

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25 **Which statement about Golgi apparatus is correct**

- A the organelle packaging proteins for transport
- B the organelle breaking down worn out cell parts
- C the organelle where photosynthesis takes place
- D the large organelle storing water in a plant cell

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ANSWER KEY

1. A
2. B
3. C
4. D
5. A
6. B
7. C
8. D
9. A
10. B
11. C
12. D
13. A
14. B
15. C
16. D
17. A
18. B
19. C
20. D
21. A
22. B
23. C
24. D
25. A

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