



Name _____ Class _____ Date _____

1 During **anaerobic respiration**, the chemical energy of a glucose molecule is gradually released, producing **36 ATP** and

- A NH₃ and O₂
- B NH₃ and CO₂
- C H₂O and O₂
- D H₂O and CO₂



2 In which process do organisms transfer chemical bond energy from **organic molecules** to **ATP molecules**?

- A cyclosis
- B diffusion
- C digestion
- D respiration

3 During **aerobic respiration**, the **oxidation of glucose** results in the formation of

- A hydrogen and water
- B water and carbon dioxide
- C oxygen and carbon dioxide
- D hydrogen and oxygen

4 Name the **process** represented by the equation below.



- A photosynthesis
- B cell respiration



PREVIEW

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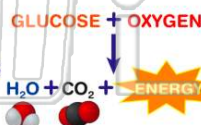
- C photosynthesis
- C respiration
- D active transport



- D enzymes that are stored in mitochondria
- C the production of catalysts in vacuoles
- D enzymes that have the same genetic base sequence

9 Which statement best describes **cellular respiration**?

- A It occurs in animal cells but not in plant cells.
- B It converts energy in food into a more usable form.
- C It uses carbon dioxide and produces oxygen.
- D It stores energy in food molecules.



10 Cutting down a rain forest and **planting agricultural crops**, such as coffee plants, would most likely result in

- A a decrease in biodiversity
- B an increase in the amount of energy recycled
- C a decrease in erosion
- D an increase in the amount of photosynthesis





ANSWER KEY

During **anaerobic respiration**, the chemical energy of a glucose molecule is gradually released, producing **36 ATP** and

- A NH₃ and O₂
- B NH₃ and CO₂
- C H₂O and O₂
- D H₂O and CO₂



(a)

In which process do organisms transfer chemical bond energy from **organic molecules** to **ATP molecules**?

- A cyclosis
- B diffusion
- C digestion
- D respiration

(d)

During **aerobic respiration**, the **oxidation of glucose** results in the formation of

- A hydrogen and water
- B water and carbon dioxide
- C oxygen and carbon dioxide
- D hydrogen and oxygen

(b)

Name the **process** represented by the equation below.



- A photosynthesis
- B cell respiration
- C cell reproduction

(b)

N
in
g
A
B
C
D



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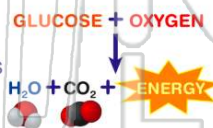
D active transport



D enzymes that have the same genetic base sequence

Which statement best describes **cellular respiration**?

- A It occurs in animal cells but not in plant cells.
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(b)

Cutting down a rain forest and **planting agricultural crops**, such as coffee plants, would most likely result in

- A a decrease in biodiversity
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- C a decrease in erosion
- D an increase in the amount of photosynthesis



(a)