



Name _____ Class _____ Date _____

1 Plants inherit genes that enable them to produce **chlorophyll**, but this pigment is **not** produced unless the plants are exposed to light. This is an example of how the **environment** can

- A cause mutations to occur
- B influence the expression of a genetic trait
- C result in the appearance of a new species
- D affect one plant species, but not another

2 One variety of strawberry is resistant to a damaging fungus, but produces small fruit. Another strawberry variety produces large fruit, but is **not** resistant to the same fungus. The **two desirable qualities** may be **combined** in a new variety of strawberry plant by

- A cloning
- B asexual reproduction
- C direct harvesting
- D selective breeding



3 Which process provides the **initial energy** to support all the levels in the energy pyramid shown below?

D

4 The green aquatic plant represented in the diagram below was exposed to light for several hours. Which **gas** would most likely be found in the **greatest amount** in the bubbles?



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- C carbon dioxide
- D methane



- A auxins
- B antigens
- C adenines
- D amylases



9 Most of the **oxygen gas** present in the **atmosphere** is produced as a result of

- A photochemical reactions
- B cellular respiration
- C dehydration synthesis
- D alcoholic fermentation



10 A green plant is kept in a brightly lighted area for 48 hours. What will most likely occur if the **light intensity is reduced slightly** during the next 48 hours?

- A Photosynthesis will stop completely.
- B The rate at which nitrogen is used by the plant will increase.
- C The rate at which oxygen is released from the plant will decrease.
- D Glucose production inside each plant cell will increase.



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B

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D

3 Which process provides the **initial energy** to support all the levels in the energy pyramid shown below?

A circulation
 B photosynthesis
 C respiration
 D transpiration



B

4 The green aquatic plant represented in the diagram below was exposed to light for several hours. Which **gas** would most likely be found in the **greatest amount** in the bubbles?



A



D

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C carbon dioxide
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C

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A

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A

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C