



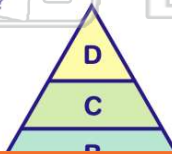
Name _____ Class _____ Date _____

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

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

- A circulation
- B photosynthesis
- C active transport



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



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 oxygen
- B nitrogen



5

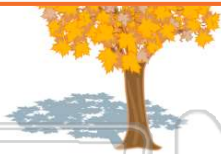


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7

- A oxygen
- 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.



ANSWER KEY

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

(b)

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**

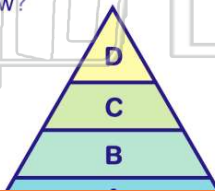
- A** cloning
- B** asexual reproduction
- C** direct harvesting
- D** selective breeding



(d)

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

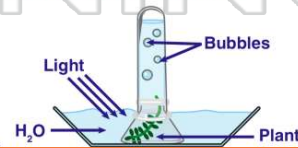
- A** circulation
- B** photosynthesis
- C** active transport
- D** digestion



(b)

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** oxygen
- B** nitrogen
- C** ozone



(a)



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- D** methane



- B** antigens
- C** adenines
- D** amylases



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



(a)

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.

(c)