



Name _____ Class _____ Date _____

1 In **bio-remediation** of wastes, **bacteria** convert the contaminants into

- A carbon dioxide and water
- B toxic substances
- C proteins and fats
- D diesel fuel and grease

2 Bio-remediation is **not** an effective method for **breaking down**

- A grease
- B gasoline
- C fuel for diesel engines and furnaces
- D heavy metals such as lead

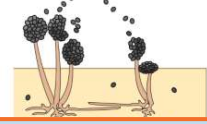


3 Two species of microorganisms were placed in the **same** culture dish, which included basic materials necessary for life. The size of each population **increased** during the first three days. After one week, the population size of one species began to **decline** each day. **What is one possible reason for this decline?**

- A competition
- B parasitism
- C mutualism
- D commensalism

4 Bread mold B developed from a spore released by bread mold A. How does the **genetic information** in bread mold B compare to the genetic information in bread mold A?

- A mold B is genetically identical to mold A
- B mold B is genetically different to mold A



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7 Antibiotics were made available for the treatment of bacterial infections. The bacteria did not respond to medical treatments. As a result of sexual reproduction, the bacteria evolved into a harmless form.

- B decomposers
- C decomposers
- D carnivores

- C decomposers
- D carnivores



9 A **new chemical** was discovered and introduced into a culture containing one species of bacteria. Within a day, most of the bacteria were dead, but a few remained alive. **Which statement best explains why some of the bacteria survived?**

- A They had a genetic variation that gave them resistance to the chemical.
- B They were exposed to the chemical long enough to develop a resistance to it.
- C They mutated and became a different species after exposure to the chemical.
- D They absorbed the chemical and broke it down in their digestive systems.

10 **Lichens** are composed of two organisms, a **fungus** that cannot make its own food and **algae** that contain **chlorophyll**.

What is the role of the **algae** component of a lichen in an ecosystem?

- A decomposer
- B parasite
- C herbivore
- D producer



ANSWER KEY

In **bio-remediation** of wastes, **bacteria** convert the contaminants into

- A carbon dioxide and water
- B toxic substances
- C proteins and fats
- D diesel fuel and grease

(a)

Bio-remediation is **not** an effective method for **breaking down**

- A grease
- B gasoline
- C fuel for diesel engines and furnaces
- D heavy metals such as lead



(d)

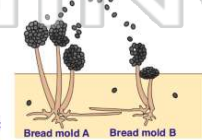
Two species of microorganisms were placed in the **same** culture dish, which included basic materials necessary for life. The size of each population **increased** during the first three days. After one week, the population size of one species began to **decline** each day. **What is one possible reason for this decline?**

- A competition
- B compensation
- C extinction
- D

(a)

Bread mold B developed from a spore released by bread mold A. How does the **genetic information** in bread mold B compare to the genetic information in bread mold A?

- A mold B is genetically identical to mold A
- B mold B is genetically different to mold A
- C mold B contains half of the genetic information than mold A



(a)



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- C The bacteria did not respond to medical treatments.
- D As a result of sexual reproduction, the bacteria evolved into a harmless form.

D carnivores

Minerals in the soil

A **new chemical** was discovered and introduced into a culture containing one species of bacteria. Within a day, most of the bacteria were dead, but a few remained alive. **Which statement best explains why some of the bacteria survived?**

- A They had a genetic variation that gave them resistance to the chemical.
- B They were exposed to the chemical long enough to develop a resistance to it.
- C They mutated and became a different species after exposure to the chemical.
- D They absorbed the chemical and broke it down in their digestive systems.

(a)

Lichens are composed of two organisms, a **fungus** that cannot make its own food and **algae** that contain **chlorophyll**.

What is the role of the algae component of a lichen in an ecosystem?

- A decomposer
- B parasite
- C herbivore
- D producer

(d)