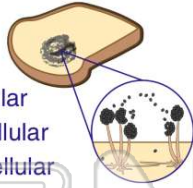




Name _____ Class _____ Date _____

1 **Fungi**, such as bread mold, use a **method of digestion** that is described as

- A chemical and intracellular
- B chemical and extracellular
- C mechanical and intracellular
- D mechanical and extracellular



3 Certain bacteria produce a chemical that makes them **resistant** to penicillin. Since these bacteria reproduce **asexually**, they **usually produce offspring that**

- A can be destroyed by penicillin
- B mutate into another species
- C are genetically different from their parents
- D are genetically identical to their parents

2 Which organisms **lack a respiratory system** and **exchange** respiratory gases through thin, moist membranes **directly** with the environment?

- A bryophytes, tracheophytes, and reptiles
- B monerans, plants, and animals
- C monerans, protists, and fungi
- D chordates, arthropods, and coelenterates

4 Some **deep-sea bacteria** live near submerged volcanoes and **make their own food** using energy derived from minerals coming from the volcanoes.

These bacteria would be **classified as**

- A heterotrophic
- B autotrophic

5



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7

- C pine tree
- D bean plant



- B Energy provided for autotrophic nutrition would be reduced.
- C The rate of mutations in plants would increase.
- D Soil fertility would increase.

9

A certain bacterial colony originated from the **division of a single bacterial cell**. Each cell in this colony will **most likely**

- A express adaptations unlike those of the other cells
- B replicate different numbers of genes
- C have a resistance to different antibiotics
- D synthesize the same proteins and enzymes

10

Which **change** in a sample of **pond water** could indicate that **heterotrophic microbes** were active?

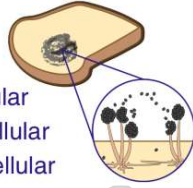
- A increase in ozone level
- B increase in glucose level
- C decrease in oxygen level
- D decrease in carbon dioxide level



ANSWER KEY

Fungi, such as bread mold, use a **method of digestion** that is described as

- A** chemical and intracellular
- B** chemical and extracellular
- C** mechanical and intracellular
- D** mechanical and extracellular



(b)

Which organisms **lack a respiratory system** and **exchange** respiratory gases through thin, moist membranes **directly** with the environment?

- A** bryophytes, tracheophytes, and reptiles
- B** monerans, plants, and animals
- C** monerans, protists, and fungi
- D** chordates, arthropods, and coelenterates

(c)

Certain bacteria produce a chemical that makes them **resistant** to penicillin. Since these bacteria reproduce **asexually**, they **usually produce offspring that**

- A** can be destroyed by penicillin
- B** mutate into another species
- C** are genetically different from their parents
- D** survive exposure to penicillin

(d)

Some **deep-sea bacteria** live near submerged volcanoes and **make their own food** using energy derived from minerals coming from the volcanoes.

These bacteria would be classified as

- A** heterotrophic
- B** autotrophic
- C** photosynthetic

(b)



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D bean plant



would be reduced.

- C** The rate of mutations in plants would increase.
- D** Soil fertility would increase.

A certain bacterial colony originated from the **division of a single bacterial cell**. Each cell in this colony will **most likely**

- A** express adaptations unlike those of the other cells
- B** replicate different numbers of genes
- C** have a resistance to different antibiotics
- D** synthesize the same proteins and enzymes

(d)

Which **change** in a sample of **pond water** could indicate that **heterotrophic microbes** were **active**?

- A** increase in ozone level
- B** increase in glucose level
- C** decrease in oxygen level
- D** decrease in carbon dioxide level

(c)