




Name _____ Class _____ Date _____

1 Which **group of organisms** is an example of a **population**?

A leopard frogs in a stream
B birds in Colorado
C reptiles in the Sahara Desert
D trees in a forest




2 Which statement concerning an **ecosystem** is correct?

A It can exist with or without a constant source of energy input.
B It must contain consumers but can exist without producers.
C It involves interactions between biotic and abiotic factors.
D It can exist on land, but it cannot exist in lakes, rivers, or oceans.

3 Which term refers to the **behavior of two species** attempting to use the **same** living space, food source, and water source?

A saprophytic
B competitive
C predatory
D commensal



4 Acacia trees provide food for a species of ant that lives on them. The ants defend the acacia tree from grasshoppers and beetles. **This relationship between the ant and acacia tree is best described as**

A commensalism
B mutualism



5



PREVIEW

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B taken in by plants through the lenticels
C converted to ammonia by bacteria of decay
D combined with carbon dioxide to form protein

B No further change will occur in the area previously covered by the pond.
C Grasses will most likely grow on the bottom of the dried-up pond.
D The pond will fill in due to seasonal dieback of aquatic vegetation.

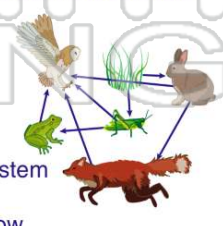
9 Male grizzly bears can maintain **territorial control** over many square miles. This role as a **top predator** in the territory is known as

A a habitat
B an ecosystem
C a biosphere
D a niche



10 A **food web** is more stable than a food chain because a food web

A transfers all of the producer energy to herbivores
B reduces the number of niches in the ecosystem
C includes alternative pathways for energy flow
D includes more consumers than producers





ANSWER KEY

Which **group of organisms** is an example of a **population**?

- A** leopard frogs in a stream
- B** birds in Colorado
- C** reptiles in the Sahara Desert
- D** trees in a forest



(a)

Which statement concerning an **ecosystem** is correct?

- A** It can exist with or without a constant source of energy input.
- B** It must contain consumers but can exist without producers.
- C** It involves interactions between biotic and abiotic factors.
- D** It can exist on land, but it cannot exist in lakes, rivers, or oceans.

(c)

Which term refers to the **behavior of two species** attempting to use the **same** living space, food source, and water source?

- A** saprophytic
- B** competitive
- C** predatory
- D** symbiotic



(b)

Acacia trees provide food for a species of ant that lives on them. The ants defend the acacia tree from grasshoppers and beetles. **This relationship between the ant and acacia tree is best described as**

- A** commensalism
- B** mutualism
- C** parasitism



(b)

V
P
A
B
C
D



PREVIEW

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- C** converted to ammonia by bacteria of decay
- D** combined with carbon dioxide to form protein

- C** Grasses will most likely grow on the bottom of the dried-up pond.
- D** The pond will fill in due to seasonal dieback of aquatic vegetation.

Male grizzly bears can maintain **territorial control** over many square miles. This role as a **top predator** in the territory is known as

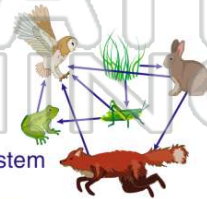
- A** a habitat
- B** an ecosystem
- C** a biosphere
- D** a niche



(d)

A **food web** is more stable than a food chain because a food web

- A** transfers all of the producer energy to herbivores
- B** reduces the number of niches in the ecosystem
- C** includes alternative pathways for energy flow
- D** includes more consumers than producers



(c)