



Name _____ Class _____ Date _____

1 One **arctic food chain** consists of polar bears, fish, seaweed, and seals. Which **sequence** demonstrates the **correct flow of energy** between these organisms?

- A seals → seaweed → fish → polar bears
- B fish → seaweed → polar bears → seals
- C seaweed → fish → seals → polar bears
- D polar bears → fish → seals → seaweed

3 Which **factor** contributed **most** to the **extinction** of many species?

- A changes in the environment
- B lethal mutations
- C inability to evolve into simple organisms



2 Which **factor** could be the **cause** of the other **three** in an animal species?

- A the inability of the species to adapt to changes
- B a lack of genetic variability in the species
- C extinction of the species
- D a decrease in the survival rate of the species

4 Most **mammals** have **adaptations** for

- A internal fertilization and internal development of the fetus
- B internal fertilization and external development of the fetus
- C external fertilization and external development of the fetus

5



PREVIEW

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7

- A would start to decrease.
- B The rattlesnake population would start to increase.
- C The prairie dog population would increase rapidly.
- D The prairie dog population would begin to prey on the rattlesnakes.



- B daily fluctuations in temperature
- C size of predators
- D average annual rainfall

9

Which group contains terms that are all directly associated with one of the **organisms** shown in the diagram below?



- A herbivore, prey, autotroph, host
- B predator, scavenger, decomposer, consumer
- C carnivore, predator, heterotroph, multicellular
- D producer, parasite, fungus, fish

10 **Imported animal species** often **disrupt an ecosystem** because in their new environment, they will most likely

- A eliminate the genetic variation of the autotrophs
- B increase the number of mutations in the herbivores
- C have no natural enemies
- D be unable to produce offspring



ANSWER KEY

One **arctic food chain** consists of polar bears, fish, seaweed, and seals. Which **sequence** demonstrates the **correct flow of energy** between these organisms?

- A** seals → seaweed → fish → polar bears
- B** fish → seaweed → polar bears → seals
- C** seaweed → fish → seals → polar bears
- D** polar bears → fish → seals → seaweed

(C)

Which **factor** could be the **cause of the other three** in an animal species?

- A** the inability of the species to adapt to changes
- B** a lack of genetic variability in the species
- C** extinction of the species
- D** a decrease in the survival rate of the species

(b)

Which **factor** contributed **most** to the **extinction** of many species?

- A** changes in the environment
- B** lethal mutations
- C** inability to evolve into simple organisms
- D** changes in migration patterns



(a)

Most **mammals** have **adaptations** for

- A** internal fertilization and internal development of the fetus
- B** internal fertilization and external development of the fetus
- C** external fertilization and external development of the fetus
- D** external fertilization and internal development of the fetus

(a)



PREVIEW

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- A** would start to increase.
- C** The prairie dog population would increase rapidly.
- D** The prairie dog population would begin to prey on the rattlesnakes.

- C** size of predators
- D** average annual rainfall

Which group contains terms that are all directly associated with one of the **organisms** shown in the diagram below?



- A** herbivore, prey, autotroph, host
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- C** carnivore, predator, heterotroph, multicellular
- D** producer, parasite, fungus, fish

(C)

Imported animal species often **disrupt an ecosystem** because in their new environment, they will most likely

- A** eliminate the genetic variation of the autotrophs
- B** increase the number of mutations in the herbivores
- C** have no natural enemies
- D** be unable to produce offspring

(C)