



Name _____ Class _____ Date _____

1 Which organisms would most likely have a **predator-prey** relationship?

- A tapeworm and dog
- B barnacle and whale
- C hawk and mouse
- D rabbit and grass



2 Which statement best explains the observation that **clones** produced from the same organism **may not be identical**?

- A Events in meiosis result in variation.
- B Gene expression can be influenced by the environment.
- C Differentiated cells have different genes.
- D Half the genetic information in offspring comes from each parent.

3 A certain species has **little genetic variation**. The rapid **extinction** of this species would most likely result from the effect of

- A successful cloning
- B gene manipulation
- C environmental change
- D



4 Which **two structures** of a frog would most likely have the **same chromosome number**?

- A skin cell and fertilized egg cell
- B zygote and sperm cell
- C kidney cell and egg cell
- D liver cell and sperm cell

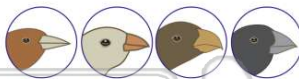


PREVIEW

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7 The second sentence best describes

- A an ecosystem
- B a food web
- C a niche
- D a predator/prey relationship



most likely influenced by

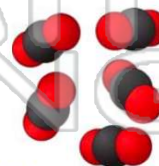
- A selection for favorable variations
- B environmental conditions identical to those of the common ancestor
- C abnormal mitotic cell division
- D weather conditions

9 Animals can **not synthesize nutrients** from **inorganic raw materials**. Therefore, animals obtain their nutrients by

- A combining carbon dioxide with water
- B consuming preformed organic compounds
- C hydrolyzing large quantities of simple sugars
- D oxidizing inorganic molecules for energy

10 The **end-product** of **aerobic respiration** are

- A oxygen and alcohol
- B oxygen and water
- C carbon dioxide and water
- D carbon dioxide and oxygen





ANSWER KEY

Which organisms would most likely have a **predator-prey** relationship?

- A tapeworm and dog
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- D rabbit and grass



(C)

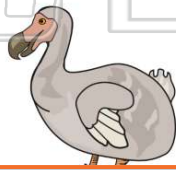
Which statement best explains the observation that **clones** produced from the same organism **may not be identical**?

- A Events in meiosis result in variation.
- B Gene expression can be influenced by the environment.
- C Differentiated cells have different genes.
- D Half the genetic information in offspring comes from each parent.

(b)

A certain species has **little genetic variation**. The rapid **extinction** of this species would most likely result from the effect of

- A successful cloning
- B gene manipulation
- C environmental change
- D genetic recombination



(C)

Which **two structures** of a frog would most likely have the **same chromosome number**?

- A skin cell and fertilized egg cell
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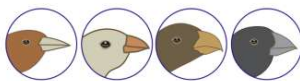
(a)



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- A an ecosystem
- B a food web
- C a niche
- D a predator/prey relationship



- A selection for favorable variations
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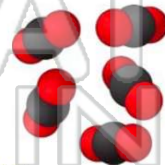
Animals can **not synthesize nutrients** from **inorganic raw materials**. Therefore, animals obtain their nutrients by

- A combining carbon dioxide with water
- B consuming preformed organic compounds
- C hydrolyzing large quantities of simple sugars
- D oxidizing inorganic molecules for energy

(b)

The **end-product** of **aerobic respiration** are

- A oxygen and alcohol
- B oxygen and water
- C carbon dioxide and water
- D carbon dioxide and oxygen



(c)