

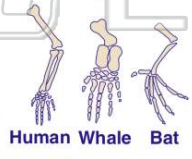


Name _____ Class _____ Date _____

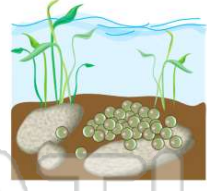
- 1 Which is an **important adaptation** for **reproduction** among land animals?
- A fertilization of gametes outside the body of the female
 - B fertilization of gametes within the body of the female
 - C production of sperm cells with thick cell walls
 - D production of sperm cells with thin cell walls



- 3 Differences in the **bone arrangements** support the **hypothesis** that these organisms
- A are members of the same species
 - B may have descended from the same ancestor
 - C have adaptations to



- 2 **Unfertilized eggs** of a frog can be made to **undergo cleavage** if the eggs are pricked with a needle. This type of development is known as
- A parthenogenesis
 - B metamorphosis
 - C differentiation
 - D pinocytosis



- 4 Which situation would most likely result in the **highest rate** of **natural selection**?
- A reproduction of organisms by an asexual method in an unchanging environment
 - B reproduction of a species having a very low mutation rate in a changing environment
 - C reproduction of organisms in an unchanging environment with little competition and few predators

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- 7
- B human reproduction is very different from that of other mammals
 - C there are many ethical problems involved in cloning humans
 - D cloning humans would take too long

- of the environment
- B the lack of natural predators
- C cycling of energy
- D increased numbers of decomposers



- 9 Some mammals have genes for fur color that **produce pigment** only when the **outside temperature** is above a certain level. This **pigment production** is an example of how the **environment of an organism can**
- A destroy certain genes
 - B cause new mutations to occur
 - C stop the process of evolution
 - D influence the expression of certain genes



- 10 Most of the **hereditary information** that determines the traits of an organism is located in
- A only those cells of an individual produced by meiosis
 - B the nuclei of body cells of an individual
 - C certain genes in the vacuoles of body cells
 - D the numerous ribosomes in certain cells





ANSWER KEY

Which is an **important adaptation** for **reproduction** among land animals?

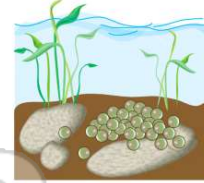
- A** fertilization of gametes outside the body of the female
- B** fertilization of gametes within the body of the female
- C** production of sperm cells with thick cell walls
- D** production of sperm cells with thin cell walls



(b)

Unfertilized eggs of a frog can be made to **undergo cleavage** if the eggs are pricked with a needle. **This type of development is known as**

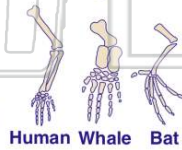
- A** parthenogenesis
- B** metamorphosis
- C** differentiation
- D** pinocytosis



(a)

Differences in the **bone arrangements** support the **hypothesis** that these organisms

- A** are members of the same species
- B** may have descended from the same ancestor
- C** have adaptations to survive in different environments
- D** all contain the same genetic information



(c)

Which situation would most likely result in the **highest rate of natural selection**?

- A** reproduction of organisms by an asexual method in an unchanging environment
- B** reproduction of a species having a very low mutation rate in a changing environment
- C** reproduction of organisms in an unchanging environment with little competition and few predators
- D** reproduction of organisms exhibiting genetic

(d)



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- B** that of other mammals
- C** there are many ethical problems involved in cloning humans
- D** cloning humans would take too long

- B** the lack of natural predators
- C** cycling of energy
- D** increased numbers of decomposers

Some mammals have genes for fur color that **produce pigment** only when the **outside temperature** is above a certain level. **This pigment production is an example of how the environment of an organism can**

- A** destroy certain genes
- B** cause new mutations to occur
- C** stop the process of evolution
- D** influence the expression of certain genes



(d)

Most of the **hereditary information** that determines the traits of an organism is located in

- A** only those cells of an individual produced by meiosis
- B** the nuclei of body cells of an individual
- C** certain genes in the vacuoles of body cells
- D** the numerous ribosomes in certain cells



(b)