

Name \_\_\_\_\_

**Darwin's Theory of Evolution**  
(Chapter 16-1 and 16-2 pp 450-458)

**MULTIPLE CHOICE**

Circle the answer that best completes the statement.

A well supported, testable explanation of phenomena that have occurred in the natural world is called a

- \_\_\_\_\_
- A. hypothesis
  - B. theory
  - C. law
  - D. prediction

Darwin's voyage on the H.M.S. \_\_\_\_\_ led him to propose a revolutionary hypothesis about life.

- A. Collie
- B. Cheetah
- C. Beagle
- D. Lion

Darwin's hypothesis about how life changes over time is now called the Theory of \_\_\_\_\_.

- A. Evolution
- B. Variation
- C. Derived characters
- D. Use and disuse

Of all the places he visited, the \_\_\_\_\_ Islands influenced Darwin's ideas about evolution the most.

- A. Hawaiian
- B. Aleutian
- C. Beagle
- D. Galapagos

In addition to observing living organisms, Darwin studied the preserved remains of ancient organisms called

- \_\_\_\_\_
- A. fossils
  - B. homologous structures
  - C. adaptations
  - D. vestigial organs

On the Galapagos Islands, Darwin observed that the characteristics of many animals and plants

- \_\_\_\_\_
- A. all looked alike
  - B. varied from island to island
  - C. were acquired through use

Which of the following best describes how LAMARCK would explain giraffes with long necks?

- A. Long-necked giraffes eat more grass than short necked giraffes so their necks grow longer.
- B. Natural variation in the population produces some longer and some shorter-necked giraffes and longer necked giraffes can reach food more easily.
- C. Some giraffes have acquired longer necks by stretching to reach food and passed that trait on.
- D. Giraffes just started out with long necks and haven't changed.

Which of the following ideas, proposed by Lamarck, was later found to be incorrect?

- A. All species were descended from other species
- B. Acquired characteristics can be inherited.
- C. Living things change over time.
- D. Organisms are adapted to their environments.

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MATCH THE SCIENTIST with his contribution

\_\_\_\_\_ proposed that Earth was shaped by geological forces that took place over millions of years

- A. CHARLES DARWIN
- B. THOMAS MALTHUS
- C. JEAN-BAPTISTE LAMARCK
- D. CHARLES LYELL
- E. JAMES HUTTON

\_\_\_\_\_ proposed that organisms acquired or lost traits during their lifetime by selective use or disuse of organs

\_\_\_\_\_ predicted that the human population will grow faster than the space and food needed to sustain it

\_\_\_\_\_ stressed that scientists can explain past events in terms of processes occurring they can observe happening now

\_\_\_\_\_ proposed a hypothesis to explain how living things change over time

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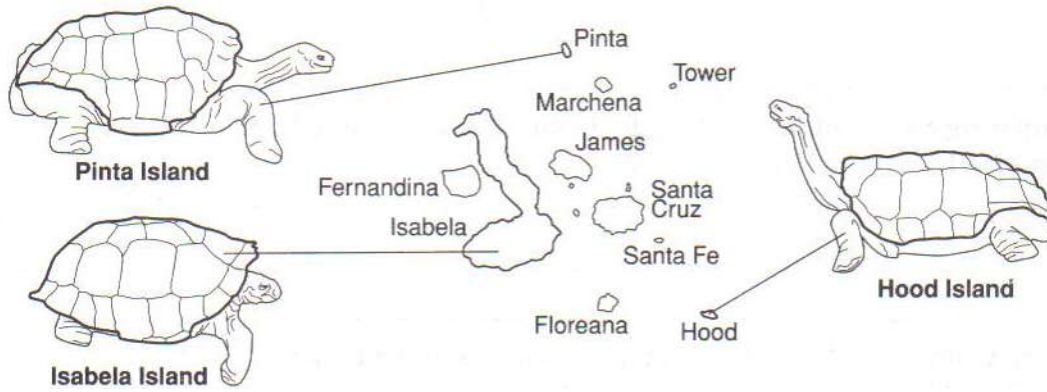
Explain how Hutton's and Lyell's ideas about the formation of the Earth influenced Darwin's ideas about Evolution.

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On the Galapagos Islands, Darwin discovered birds with differently shaped beaks. What might this tell you about the eating habits of the birds on different islands? Explain your answer.

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Tortoises eat plants. On one island plants grow very close to the ground.  
Which island do you think this is?

Isabela Island

Hood Island

EXPLAIN your answer. Why did you choose the island you did?

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Which island do you think has sparse vegetation that is hard to reach?

Pinta Island

Hood Island

What would you predict the vegetation and rainfall are like on Pinta Island?

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