

Chapter 15

Tracing Evolutionary History

Multiple-Choice Questions

1) Which of the following statements correctly describes the relationship between pterosaurs and birds?

- A) Birds descend from pterosaurs and inherited their flight ability from them.
- B) Birds descend from feathered dinosaurs. Pterosaurs are a distinct group that went extinct about the time that birds arose.
- C) Birds, bats, and pterosaurs are all descendants of a common winged ancestor.
- D) Birds have membranous wings, which distinguishes them from pterosaurs, which were feathered.
- E) The evolutionary relationship between birds and pterosaurs remains uncertain because no fossils exist that help to determine the relationship.

Answer: B

Topic: Opening Essay

Skill: Conceptual Understanding

2) The "big bang" that produced the universe is thought to have occurred

- A) 50 trillion years ago.
- B) 40 billion years ago.
- C) 10 to 20 billion years ago.
- D) 4.6 billion years ago.
- E) 4 million years ago.

Answer: C

Topic: 15.1

Skill: Factual Recall

3) When the Earth first solidified, what were conditions like?

- A) The atmosphere was similar to today's atmosphere, but there was more volcanic activity.
- B) The atmosphere was rich in gases released in volcanic eruptions, but otherwise physical conditions were similar to those seen on Earth today.
- C) The atmosphere was rich in gases released in volcanic eruptions, and volcanic activity was intense, but very little ultraviolet light reached Earth's surface because of the thick atmosphere.
- D) The atmosphere was rich in gases released in volcanic eruptions; volcanic activity, lightning, and ultraviolet radiation were all much more intense than on today's Earth.
- E) It was just like Earth today, except there was no life.

Answer: D

Topic: 15.1

Skill: Factual Recall

Biology Concepts And Connections Study Guide Answers

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