Glencoe Biology

Chapter 15: Evolution

Chapter Test Practice

1. Darwin referred to the process of promoting certain traits by breeding members with those traits as ____.
Need a Hint?
- A) natural selection
- B) artificial selection
- C) evolution
- D) ancestral breeding

2. A morphological adaptation in which one species resembles another is called ____.
Need a Hint?
- A) mimicry
- B) camouflage
- C) vestigial adaptation
- D) fitness

3. Population decline causes an extreme genetic drift called a ____.
Need a Hint?
- A) nonrandom mating
- B) founder effect
- C) bottleneck
- D) stabilizing effect

4. Recently evolved traits that do not appear in ancestral fossils are called ____.
Need a Hint?
- A) homologous traits
- B) ancestral traits
- C) primitive traits
- D) derived traits

5. This illustration compares amino acid sequences in various kinds of organisms. Which statement is correct based on this information?

(14.0K)
Need a Hint?
- A) Humans have no amino acid sequences.
- B) Moths have no amino acid sequences.
- C) Humans share more amino acid sequences with pigs than fish.
- D) Turtles and ducks share no amino acid sequences.

6. What are two main components of natural selection?
Need a Hint?
- A) vestigial structures and camouflage
- B) artificial selection and selective breeding
- C) variation and inheritance
- D) mimicry and artificial selection

7. What evolutionary phenomena has occurred in these fishes?

(29.0K)
Need a Hint?
- A) adaptive radiation
- B) coevolution
- C) cloning
- D) dependent evolution

8. What has occurred when fertilization produces a hybrid offspring that cannot develop or reproduce?
Need a Hint?
- A) prezygotic isolation
- B) postzygotic isolation
- C) non-reproductive isolation.
- D) speciation

9. What important observation did Darwin make on the voyage shown here?

(16.0K)
Need a Hint?
- A) same species on Galapagos as mainland
- B) Galapagos species differ than mainland species
- C) no life existed on the Galapagos
- D) populations on the Galapagos stayed the same

10. What occurs when average traits benefit a population rather than extreme traits?
Need a Hint?
- A) unnatural selection
- B) directional selection
- C) disruptive selection
- D) stabilizing selection

11. What theory accounts for why populations can be modified over time?
Need a Hint?
- A) natural selection
- B) artificial selection
- C) ancestral modification
- D) fossil theory

12. Which of these does not support the theory of gradualism?
Need a Hint?
- A) Evolution proceeds in small steps.
- B) Evolution is a dynamic process.
- C) Fossil records contain abrupt transitions.
- D) Evolution may take millions of years.

13. Which of these is an example of a non-adaptive evolved characteristic?
Need a Hint?
- A) sharp teeth of carnivores
- B) camouflage color of insects
- C) long legs of wolves
- D) helplessness of human babies

14. Which of these is an example of analogous structures?
Need a Hint?
- A) hawk wings and fish fins
- B) hawk and insect wings
- C) horse legs and insect wings
- D) horse legs and elephant trunks

15. Which statement is true regarding evolution?
Need a Hint?
- A) It describes changes over many generations.
- B) It is the same as natural selection.
- C) It only involves artificial selection.
- D) It occurs within a single generation.

Check Answers

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