

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](#)