Natural Selection Quiz Review Guide

1. Write the definition of evolution. Give an example.

Evolution is the change in a population over a gradual period of time. Examples: the peppered moths changed colors as their environment changed color.

2. Why does evolution occur? Explain using: natural selection, variation, and random mutations.

Random mutations occur in populations all of the time. Mutations that produce variations (ie white fur instead of brown) sometimes help an organism ADAPT to its environment BETTER. Organisms that are better adapted are more likely to live and produce offspring. Eventually, this trait can take over a population.

How does studying embryos give us clues to which organisms are most closely related? Give an example.

Embryos that have the most similarities throughout gestation are most likely more closely related. For example, the rabbit and the human are almost identical up until the third trimester.

4. What is the difference between artificial and natural selection. Give examples of each.

Artificial is driven by humans while natural selection is driven by nature. Dogs are an example of artificial selection while wolves are an example of natural selection.

Describe the bunny lab. What made the bunny population grow? Disappear? Change?

In the bunny lab, you could add mutations that enabled the bunnies to better adapt to their environments (ie food sources, habitat, predators). A favorable trait quickly replaced the less favorable one.

- Below is a phylogeny (tree of common ancestors):
 - How are common ancestors indicated? Intersecting lines.
 - b. Which organisms are most closely related? Bear/Chimp.
 - c. Which organisms are least related? Lamprey/Chimp
 - d. Which organism is most closely related to a Lamprey? Sunfish
- 7. What is the definition of a species?

A population of animals that can interbreed and produce fertile offspring.

- Are ligers, zorses, and mules considered their species? Why or why not?
 No. They can mate but their offspring are sterile. You cannot breed two ligers and make more ligers.
- Define "niche" and "competition". Give examples of each.

A "niche" is the role or function of an organism in its environment. "Competition" is a negative interaction between organisms where they are competing for the same limited resource (ie food or shelter). Examples: a predator's "niche" is often to control prey populations. "Competition" occurs between tigers who occupy and hunt in overlapping territories.

What is a vestigial trait? Give an example.

A trait that is no longer needed/used but was inherited from a common ancestor. Examples: wisdom teeth, appendix, facial hair, ear muscles, etc.

11. What is the difference between analogous and homologous traits? Check all that are true.

	Analogous	Hemologous
Related Species? (ie bear and chimp)		000
Unrelated? (ie sunfish and chimp)	3	
Same structure?		36
Same function?	× ×	(sometimes)
Example:	Bird and butterfly wing	Hand bones in whales and humans

Answer Sheet For Evolution Natural And Artificial Selection

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Table of Contents Answer Sheet For Evolution Natural And Artificial Selection

- 1. Understanding the eBook Answer Sheet For Evolution Natural And Artificial Selection
 - \circ The Rise of Digital Reading Answer Sheet For Evolution Natural And Artificial Selection
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Answer Sheet For Evolution Natural And Artificial Selection
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answer Sheet For Evolution Natural And Artificial Selection
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Answer Sheet For Evolution Natural And Artificial Selection
 - Personalized Recommendations
 - Answer Sheet For Evolution Natural And Artificial Selection User Reviews and Ratings
 - Answer Sheet For Evolution Natural And Artificial Selection and Bestseller Lists
- 5. Accessing Answer Sheet For Evolution Natural And Artificial Selection Free and Paid eBooks
 - Answer Sheet For Evolution Natural And Artificial Selection Public Domain eBooks

- Answer Sheet For Evolution Natural And Artificial Selection eBook Subscription Services
- Answer Sheet For Evolution Natural And Artificial Selection Budget-Friendly Options
- 6. Navigating Answer Sheet For Evolution Natural And Artificial Selection eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Answer Sheet For Evolution Natural And Artificial Selection Compatibility with Devices
 - Answer Sheet For Evolution Natural And Artificial Selection Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Sheet For Evolution Natural And Artificial Selection
 - Highlighting and Note-Taking Answer Sheet For Evolution Natural And Artificial Selection
 - Interactive Elements Answer Sheet For Evolution Natural And Artificial Selection
- 8. Staying Engaged with Answer Sheet For Evolution Natural And Artificial Selection
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Sheet For Evolution Natural And Artificial Selection
- 9. Balancing eBooks and Physical Books Answer Sheet For Evolution Natural And Artificial Selection
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Sheet For Evolution Natural And Artificial Selection
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answer Sheet For Evolution Natural And Artificial Selection
 - Setting Reading Goals Answer Sheet For Evolution Natural And Artificial Selection
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answer Sheet For Evolution Natural And Artificial Selection
 - Fact-Checking eBook Content of Answer Sheet For Evolution Natural And Artificial Selection
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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