

AP Biology Ecology Questions for Review

Biosphere: Intro to Earth's Diverse Environments

1. How had the view of the pesticide DDT changed from 1950 and 1970? Why was it used in the first place and why was use halted?
2. What adaptations do the pronghorn antelope have to withstand the abiotic factors of an arid, windy environment with large temperature fluctuations? What adaptations do they have for the biotic factors of their available food source and predation by wolves, coyotes and cougars?
3. How might climate change impact biomes? Ecosystems?
4. Describe a salt water aquatic biome with the following terms: intertidal zone, pelagic zone, benthic zone, photic zone, continental shelf, estuary and wetland.
5. Give examples of freshwater biomes and discuss the problem of fertilizer run off from the land into these bodies of freshwater.
6. What is "eutrophication"? What are some of the causes? Can measures be taken to clean up eutrophied waters? Use the Barnegat Bay as an example.
7. List the 8 terrestrial biomes and describe the defining characteristics of each.

Behavioral Adaptations to the Environment

1. What is "behavior" defined as?
2. What are the 2 questions behind the basis of behavioral ecology and what distinguishes them from each other?
3. What is the definition of a fixed action pattern? Give an example of one. Why might FAP's be linked to evolutionary success and survival?
4. Animal behavior is a sum total of one's genes (nature) and one's _____ (nurture).
5. Give an example of evidence for a genetic basis of behavior.
6. Describe and give examples of: taxis, kinesis, territoriality, nonverbal communication, altruism, and social hierarchy in organisms.
7. Define learning. Describe/give examples of: innate behavior, habituation, imprinting, classical conditioning, operant conditioning, associative learning, social learning and problem solving.
8. What can be done for animals in captive breeding programs to make sure they imprint behavior on their own species example? Give an example of such a program and what it is doing.
9. In order for spatial learning to occur, what is needed? What is the difference between a kinesis and a taxis? Give an animal example for each.
10. What two processes are involved in social learning? Describe this process with 2 animal examples.
11. What does the process of problem solving rely on? Give an example of an animal solving a problem.
12. Distinguish between generalists and specialists with regards to foraging for food.

Ap Biology Ecology Activity 4 Answers

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