

AP Biology Final Exam Study Guide 1: Ecology & Animal Behavior

1. Water

a. Check off which characteristics apply to which body of water:

Characteristic	Moving Stream	Lake or Pond
Water layered by temperature		
Higher levels of dissolved oxygen		
Higher salt content		
Occurrence of eutrophication		
Many anaerobic organisms		
Many aerobic organisms		

b. How does heating up water affect:

- Hydrogen bonding:
- Dissolved oxygen content:

c. Define:

- Transpiration
- Cohesion
- Adhesion

2. Define and give an example:

- Imprinting:
- Insight Learning:
- Trial and Error Learning:

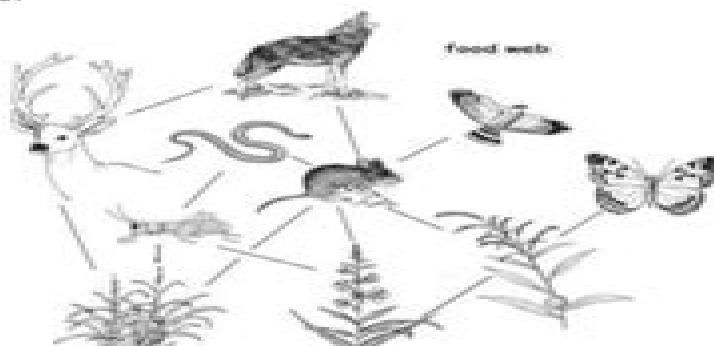
3. The Nitrogen Cycle

- _____ Ammonification
- _____ Denitrification
- _____ Nitrification
- _____ Nitrogen Fixation

- a. Conversion of ammonia to usable nitrates
- b. Bacteria on plant roots convert N₂ gas to ammonia
- c. Conversion of unused nitrates back to N₂ gas
- d. Bacteria produce ammonia from nitrogenous wastes

4. Energy flows through an ecosystem, matter is cycled (often by bacteria). No question here, just a reminder comment!

5.



- a. What is a "trophic level"?
- b. Which organisms here feed at multiple trophic levels?
- c. Why are there usually only around 4 trophic levels in a food chain?

Biological Ecology Final Exam Study Guide Answers

Gene R. Hawes

Biological Ecology Final Exam Study Guide Answers:

High-School Biology Today and Tomorrow National Research Council, Division on Earth and Life Studies, Commission on Life Sciences, Committee on High-School Biology Education, 1989-02-01 Biology is where many of science's most exciting and relevant advances are taking place. Yet many students leave school without having learned basic biology principles and few are excited enough to continue in the sciences. Why is biology education failing? How can reform be accomplished? This book presents information and expert views from curriculum developers, teachers, and others offering suggestions about major issues in biology education: what should we teach in biology and how should it be taught? How can we measure results? How should teachers be educated and certified? What obstacles are blocking reform?

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