

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

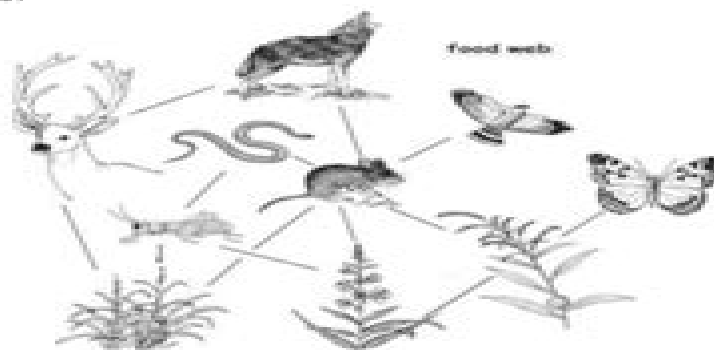
b. Bacteria on plant roots convert N_2 gas to ammonia

c. Conversion of unused nitrates back to N_2 gas

d. Bacteria produces 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



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