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## Ecology Section 1 Study Guide

### Vocabulary Terms

1. **Abiotic** **Never** living factor present in an environment
2. **Biotic** **A** living or once living factor present in an environment
3. **Cell** **Smallest** living structural unit of an organism
4. **Homeostasis** **The** maintenance of an internal constant environment
5. **Stimulus** **An** outside object or force that causes an organism to respond
6. **Metabolism** **The** sum of all chemical reactions in an organism
7. **Sexual Reproduction** **The** production of offspring from the joining of two cells from two parents
8. **Asexual Reproduction** **The** production of an offspring from a single parent
9. **Heredity** **The** passing of genetic traits from one generation to the next

### Know these key concepts and ideas

1. Give examples of stimuli and organisms' reactions to those stimuli.  
Temperature -> goose bumps, chills, sweating  
Bell ringing -> Students get up and leave class
2. Give examples of biotic and abiotic factors found in environments.  
Biotic -> animals, plants, bacteria, fungi, and anything made from those organisms  
Abiotic -> temperature, rocks, minerals, elements, plastic, sunlight
3. List and explain the 6 characteristics of living things.  
Cells (explained above)  
DNA -> Genetic carrying molecule found in cells  
Use energy -> Organisms must get energy from an outside source and use it to do activities  
Grow and Develop -> Organisms must change and increase over time  
Reproduce -> Organisms as a species must have the ability to produce offspring  
Sense and respond to change -> Organisms that encounter stimuli should react to them
4. Explain the difference between sexual and asexual reproduction and the type of offspring they produce.  
Sexual -> 2 parents produce an offspring that has traits of both parents  
Asexual -> 1 parent produces an offspring that has identical genetics to their own

# Ecology And Biome Study Guide Answer Key

**Michal Rosen-Zvi**



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