

Study Guide B

Answer Key

SECTION 1. THE STUDY OF LIFE

- Answers should include different land and aquatic environments, as well as the atmosphere.
- the variety of life on Earth
- a type of living thing that can interbreed to reproduce
- Biodiversity is the variety of life (or species) across the biosphere.
- It increases from the poles to the equator.
- made up of cells, uses energy and has metabolism, responds to its environment, can reproduce and grow
- Cells:** all organisms are made of one or more cells. **Energy and metabolism:** all organisms need energy for chemical processes, called metabolism. **Response to environment:** all organisms respond to physical factors, called stimuli, in their environment. **Reproduction and development:** all organisms must have the ability to reproduce and pass on their genetic material, or DNA, to their offspring.
- Eco-** means "life," and **sphere** means ball-shaped. **Biosphere** means all of the places living things are found on Earth.
- any individual living thing
- Metabolism is all of the chemical processes that change substances in an organism.
- DNA is the genetic material of all organisms, and it is passed on to offspring during reproduction.

SECTION 2. UNIFYING THEMES OF BIOLOGY

- an organized group of related parts that interact to form a whole
- Sample Answer: body systems; an organ
- Molecules
- Different types of cells work together to form a system, such as the circulatory system.
- Organism
- Different living things interact with each other and with nonliving parts of their environment.
- Structure refers to shape and arrangement. Function is how something works or what it does.
- Sample Answer: Cells in the brain have long branching structures that allow them to send messages long distances.
- the maintenance of constant internal conditions in an organism
- Homeostasis keeps cells within a range of conditions that allow cells to complete their activities.
- Students' answers will vary but should indicate that negative feedback acts to return a condition to normal.
- the change in living things over time
- changes
- Adaptations
- ecosystem
- homeostasis

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