

Campbell Biology: Concepts and Connections, 9e (Taylor et al.)
Chapter 1 Biology: Exploring Life

1.1 Multiple Choice Questions

1) Which statement about the properties of life is *false*?

- A) Organisms have the ability to take in energy and use it.
- B) Organisms have the ability to respond to stimuli from the environment.
- C) Organisms have the ability to reproduce.
- D) Organisms have an unchanging, constant internal environment.

Answer: D

Topic: 1.1

2) Life is organized in a hierarchical fashion. Which sequence correctly lists that hierarchy from least inclusive to most inclusive?

- A) ecosystem, population, organ system, cell, community, molecule, organ, organism, organelle, tissue
- B) cell, molecule, organ system, organ, organelle, population, tissue, organism, ecosystem, community
- C) molecule, cell, organism, organ system, tissue, population, organ, organelle, community, ecosystem
- D) molecule, organelle, cell, tissue, organ, organ system, organism, population, community, ecosystem

Answer: D

Topic: 1.3

3) Which statement best describes the relationship between a tissue and an organ system?

- A) The tissue level of organization is more inclusive than the organ system level.
- B) Tissues are not composed of cells; organ systems are composed of cells.
- C) A tissue cannot exist unless it is a component of an organ system, whereas an organ system can exist independently of tissues.
- D) An organ system includes tissues.

Answer: D

Topic: 1.3

4) The tree in your backyard is home to two cardinals, a colony of ants, a wasp's nest, two squirrels, and millions of bacteria. Together, all of these organisms represent a(n)

- A) species.
- B) community.
- C) population.
- D) ecosystem.

Answer: B

Topic: 1.3

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