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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