

***Campbell Biology, 12e (Urry)***  
**Chapter 55 Ecosystems and Restoration Ecology**

**55.1 Multiple Choice Questions**

1) The introduction of a predator population of arctic foxes to a small island caused the grassland community of the island to slowly convert to tundra due to changes in nutrient cycling. Which of the following best explains this change in the ecosystem?

- A) The grassland habitats were negatively affected by the trampling and burrow-digging of the predator population.
- B) The water intake of the predator population reduced water availability for grasses.
- C) The predator population consumed a large proportion of the grass-like plants.
- D) The predators consumed an herbivore or secondary consumer population that was promoting grass-like habitats.

Answer: D

Topic: Physical laws govern energy flow and chemical cycling in ecosystems

Bloom's Taxonomy: Levels 1-2: Remembering/Understanding

Learning Outcome: 55.1, Global LO: G2, V&C LO: VC-SF

2) Which of the following are the two key emergent properties of an ecosystem?

- A) decomposition and nutrient cycling
- B) solar radiation and primary production
- C) photosynthesis and cellular respiration
- D) energy flow and chemical cycling

Answer: D

Topic: Physical laws govern energy flow and chemical cycling in ecosystems

Bloom's Taxonomy: Levels 1-2: Remembering/Understanding

Learning Outcome: 55.1, Global LO: G2, V&C LO: VC-SF

3) A group of students walking through a coastal rainforest in Vietnam observe a large, beautiful tree towering above. The tree is full of orchids, mosses, birds, insects, arachnids, and millions of bacteria, all interacting with the abiotic environment, including the air, soil, and water of the forest. Which of the following terms best describe this in the entirety of what they are observing?

- A) habitat
- B) microcosm
- C) ecosystem
- D) community

Answer: C

Topic: Physical laws govern energy flow and chemical cycling in ecosystems

Bloom's Taxonomy: Levels 3-4: Applying/Analyzing

Learning Outcome: 55.1, Global LO: G2, V&C LO: VC-SF

# Chapter 55 Ecosystems Study Guide Answers

**Neil A. Campbell, Jane B. Reece**



## **Chapter 55 Ecosystems Study Guide Answers:**

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