

## **Guided Reading Questions for Material Covered between Exam 3 and Final**

*You do not have to know all of the material in every chapter listed on the syllabus. To help you pick and choose what to focus on, I have selected the following questions as being most relevant to the material we will cover in class. As you study, try to answer these questions without looking at your book or your notes.*

### **Chapter 41**

Sec. 41.1

- Mastering Concepts #1,3

Sec. 41.2

- Mastering Concepts #1, 2

Sec. 41.3

- Mastering Concepts #2, 3

Sec. 41.4

- Mastering Concepts #1

Multiple Choice #1, 2, 3, 4, 6, 8

Testing Knowledge #2, 3, 4, 5, 6, 7, 8

Thinking as a Scientist #1, 3, 4

### **Chapter 39**

Sec. 39.1

- Mastering Concepts #1, 2, 3, 4, 5

Sec. 39.2

- Mastering Concepts #2, 3, 4, 5, 6

Sec. 39.3

- Mastering Concepts #1

Sec. 39.4

- Mastering Concepts #4
- Which growth pattern has the human population shown for most of history?

Multiple Choice #4, 5, 6, 7, 8, 9, 10

Testing Knowledge #1, 3, 4, 5, 6, 7, 8, 10

Thinking as a Scientist #1, 2, 3, 6, 7, 10

### **Chapter 40**

Sec. 40.1

- Mastering Concepts #1, 2, 3, 4, 5, 6, 7, 8

Sec. 40.2

- Mastering Concepts #1, 2, 3

Sec. 40.3

- Mastering Concepts #1, 2, 3, 4, 5, 6

Sec. 40.4

- Mastering Concepts #1, 3
- Trace the path of a carbon atom from the atmosphere to the muscle of your cat and back to the atmosphere again.

Multiple Choice #1, 3, 4, 5, 7, 8, 9

Testing Knowledge #1, 2, 3, 4, 5, 7, 8, 9

Thinking as a Scientist #1, 2, 3, 4, 6, 7, 8, 9

## Chapter 42

Sec. 42.1

- Mastering Concepts #1

Sec. 42.2

- Mastering Concepts #1, 2, 3

Sec. 42.3

- Mastering Concepts #1, 2, 3

Sec. 42.4

- Mastering Concepts #1, 3

Overall:

- What are some of the major threats to biodiversity worldwide?

Multiple Choice #1, 3, 4, 7, 8, 9

Testing Knowledge #1, 2, 3, 4, 5, 6, 7, 8

Thinking as a Scientist #1, 2, 3, 4, 5, 9

**Make a concept map** using the following terms: population, community, ecosystem, biome, niche, competitive exclusion, symbiosis, mutualism, commensalism, parasitism, predation, organism, density-dependent, density-independent, exponential, logistic, r-selected, K-selected, autotroph, heterotroph, carrying capacity, consumer, producer