

Practice 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 18 – Populations

Section	Question type	Question number(s)
18.1	Mastering Concepts	1, 2, 3
18.2	Mastering Concepts	1
18.3	Mastering Concepts	1, 2
18.4	Mastering Concepts	1, 2
18.5	Mastering Concepts	1, 2, 3
18.6	Other	Describe the historic pattern of human population growth and explain what is likely to happen to the growth rate in the future.

Section/page	Question type	Question number(s) or question location
End of chapter	Multiple Choice	1, 2, 3, 5
End of chapter	Write It Out	1, 4, 5, 6, 7
End of chapter	Pull It Together	1, 2, 3

Chapter 19 – Communities and Ecosystems

Section	Question type	Question number(s)
19.1	Mastering Concepts	1, 2, 3
19.2	Other	In general, what are the patterns of temperature and rainfall around the world?
19.3	Mastering Concepts	2
19.3	Other	Why do freshwater ecosystems select for different adaptations from marine ecosystems?
19.4	Mastering Concepts	1, 2, 3, 4
19.5	Mastering Concepts	1, 2, 3, 4
19.6	Mastering Concepts	1, 2, 3, 4, 5
19.7	Mastering Concepts	3
19.7	Other	Trace the path of a carbon atom from the atmosphere to the muscle of your cat and back to the atmosphere again.

[continued on next page]

Section/page	Question type	Question number(s) or question location
N/A	Figure It Out	Page 390
End of chapter	Multiple Choice	1, 3, 8, 9
End of chapter	Write It Out	1, 4, 6, 7, 8, 9, 10, 11
End of chapter	Pull It Together	1, 2, 3

Chapter 20 – Preserving Biodiversity

Section	Question type	Question number(s)
20.1	Mastering Concepts	1
20.2	Mastering Concepts	1
20.3	Other	Explain the origin of the “dead zone” in figure 20.7
20.4	Mastering Concepts	1, 2, 3
20.5	Mastering Concepts	2

Section/page	Question type	Question number(s) or question location
End of chapter	Multiple Choice	1, 3, 4, 5, 6
End of chapter	Write It Out	1, 2, 5, 6, 7, 11, 12
End of chapter	Pull It Together	1
End of chapter	Pull It Together	Describe each of the threats to biodiversity in figure 20.19, and provide examples.

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, opportunistic species, equilibrium species, autotroph, heterotroph, carrying capacity, consumer, producer