Questions to help you review the material and comprehend important points.

1. What are the two primary drivers of the distribution and abundance of species?
2. What are two secondary drivers? Tertiary drivers?
3. How does species richness often vary with latitude?
5. How do iteroparous and semelparous life history strategies differ?
6. What is the implication of exponential growth having a constant doubling time?
7. Why isn’t the universe full of flies? What is ‘K’?
8. Explain how the exponential growth equation is different than the logistic growth equation.
9. What are the axes we use to display population growth patterns?
10. How would you describe human population growth in the last 250 yrs?
11. What does the ‘Rule of 70’ allow you to approximate? What do you need to know to use it?
12. What is a metapopulation? Why might a population go temporarily extinct? What is a sink population as compared to a source population?
13. Compare and contrast Habitat and Niche.
14. How and why do the fundamental and realized niches differ?
15. How do predation and competition affect the niche?
16. Are predator and prey population sizes usually independent of each other or linked in some way? Explain.
17. Explain the following subtleties of competition:
   - intraspecific, interspecific, interference, exploitation
18. What does the classic barnacle example demonstrate?
19. What happened in the “Battle at Kruger” video?
20. Explain the impact on each species in these paired interactions:
   - mutualism, commensalism, antagonism, competition
21. Can you differentiate among four different types of antagonism?
22. Provide two examples of mutualism. What is a symbiotic mutualism?
23. How is coexistence of many similar species in one place related to realized and fundamental niches?
24. How can a predator increase prey species diversity in a given location?