**Chapter 19** **Study Guide Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. What is the difference between population size and population density?
2. How can mark and recapture be used to sample population size?
3. How can a quadrat be used to sample population size?
4. What is the difference between random, clumped and uniform distribution patterns?
5. What are some statistics that may be included in life tables?
6. What is the difference between Type I, Type II and Type III survivorship curves?
7. What is exponential growth? What shape curve does this produce?
8. What is logistic growth? What shape curve does this produce?
9. What is the difference between density-dependent and density-independent factors?
10. How was density-dependent regulation studied using wild donkeys?
11. Why did the wooly mammoth become extinct?
12. What is the difference between K-selected and r-selected species?
13. Describe the most often cited-example of predator-prey population dynamics?
14. What are some mechanisms that organisms have evolved to prevent predation?
15. What are some mechanisms that plants have evolved to prevent herbivory?
16. What type of growth is the human population experiencing?
17. What type of countries have rapid growth in human population? Which have slow growth?
18. What are some consequences of the increases in human population growth?
19. What is the predator-prey interaction?
20. What are some examples of mimicry?
21. Give an example of a commensalism, a mutualism, and a parasitism. What do these mean?
22. What is a foundation species? Give an example.
23. What is a keystone species? Give an example.
24. What is an invasive species? Give an example.
25. What is a pioneer species? Give an example.
26. What is the difference between primary and secondary succession?
27. Describe secondary succession in forests that experience wildfires.
28. Be familiar with the vocabulary in the chapter. You can use the last slides in the PPT as a guide.