**Populations and Ecosystems Unit Test Study Guide**

1. What is an ecosystem? Give an example.
2. What is a community? Give an example.
3. What is a population? Give an example.
4. How do scientists know an ecosystem is healthy?
5. What is a niche? Give an example.
6. What is population density?
7. What are limiting factors?
8. How are density dependent limiting factors different from density independent limiting factors?
9. What is competition?
10. What is symbiosis?
11. What is mutualism? Give an example.
12. What is parasitism? Give an example.
13. What is commensalism? Give an example.
14. Where does all the energy on earth come from?
15. What is a producer? Give an example.
16. What is a consumer? Give an example.
17. What is a carnivore? Give an example.
18. What is a herbivore? Give an example.
19. What is an omnivore? Give an example.
20. What is biodiversity?
21. Draw an energy pyramid. What does it tell you?
22. What is a trophic level?
23. What percentage of energy is transferred from one trophic level to the next on an energy pyramid?
24. What is a primary consumer? Give an example.
25. What is a decomposer? Give an example.
26. Draw a food web. Label producers, primary consumers, secondary consumers, etc.
27. What is the difference between a food chain and a food web?
28. Which trophic level stores the greatest amount of energy?
29. Which trophic level stores the least amount of energy?
30. What is a predator/Prey relationship?
31. What is a number pyramid? What does it tell scientists?
32. What is a biomass pyramid? What is biomass?
33. How are the 3 types of ecological pyramids similar? How are they different?
34. List 3 biotic factors.
35. List 3 abiotic factors.
36. Describe the carbon and oxygen cycles.