Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 5A Test Review

Define and give an example of:

1. abiotic

2. biotic

3. trophic level

4. herbivore/primary consumer

5. carnivore/secondary consumer

6. producer/autotroph

7. omnivore

8. decomposer

9. parasitism

10. mutualism

11. commensalism

12. predation

13. competition

14. niche

15. population

16. community

17. ecosystem

18. biome

19. biosphere

20. primary succession

21. secondary succession

22. density dependent limiting factor

23. density independent limiting factor

Define only

24. ecology

25. endospore

26. binary fission

27. conjugation

28. nitrogen fixation

29. Draw an ecological pyramid and label producers, primary consumers and secondary consumers. Indicate where you would find the highest amount of energy.

30. What is the original source of energy in most ecosystems?

31. What do the arrows in a food web or food chain indicate?

32. What percentage of energy is transferred from one trophic level to the next?

33. Draw a food chain with 4 organisms. Label the producer as 100% energy and place the correct percentages with the remaining organisms.

34. What happens to the energy that is not passed to the next trophic level?

35. What is the difference between an autotroph and a heterotroph?

36. Differentiate between an energy pyramid, a biomass pyramid and a pyramid of numbers.

37. Compare and contrast desert, tundra and rainforest biomes in terms of climate.

38. Explain the difference between climate and weather.

39. Explain the difference between immigration and emigration.

40. Explain the difference between logistic and exponential growth.

41. How do prey population number affect predator population numbers?

42. What happens to a population that exceeds the carrying capacity of that area it lives in?

43. Compare the movement of energy to the movement of carbon, nitrogen and water in an ecosystem.

44. Explain the effects of birth rate and death rate on population growth.

45. Explain the movement of long-lasting chemicals such as DDT in a food chain.

46. List three roles of bacteria in the environment.

47. Name three ways bacteria can be classified.

48. List and describe the three shapes of bacterial cells.

49. What are the differences between eubacteria and archaebacteria?