Environmental Science Chapter 5 Study Guide

How Ecosystems Change

1. What is photosynthesis? Which organisms go through photosynthesis? (4)

2. What is the chemical reaction of photosynthesis? Which are the ingredients? Which are the products? (7)

3. What is a producer? What else can they be called? (3)

4. What is a consumer? What else can they be called? (3)

5. How do producers get their energy? How do consumers get there energy? (2)
6. What is the exception of to the rule? How are they organisms different? (2)

7. What are the 5 types of consumers? What do they eat? Give 1 example of each. (15)

8. What is cellular respiration? How is it related to photosynthesis? (2)

9. What is the chemical reaction for cellular respiration? Which are the ingredients? Which are the products? (7)
10. What is a food chain? What is a food web? What do they both show? (3)

11. What is a trophic level? (1)

12. How does an energy pyramid work? Which organisms are located at the different levels? (5)

13. Describe how energy is lost in an ecosystem AND how it affects the ecosystem. (5)

14. What is the carbon cycle? (1)

15. Describe the movement of carbon through carbon cycle. (5)
16. What are fossil fuels? Give 3 examples. (4)

17. How do humans affect the carbon cycle? (1)

18. What is the nitrogen cycle? (1)

19. Describe the movement of nitrogen through the nitrogen cycle. (5)

20. What are nitrogen-fixing bacteria? Why are they important? (2)
21. Why are decomposers important to the nitrogen cycle? (1)

22. What is the phosphorous cycle? (1)

23. Describe the movement of phosphorous through the phosphorous cycle. (5)

24. How do fertilizers affect the nitrogen and phosphorous cycles? (2)

25. What is acid rain? How does it form? Why is it bad? (3)
26. What is ecological succession? (1)

27. What is primary succession? Describe the process. (4)

28. What is a pioneer species? Why are they important? Give an example of one. (3)

29. What is a climax community? (1)

30. Where can primary succession occur? (2)
31. What is secondary succession? Describe the process. (4)

32. Why are forest fires important? (1)

33. What is old-field succession? (1)