

Environmental Semester Exam #2 - Study Guide

1. A Climax community is a final and stable community.
2. Primary succession begins with bare rock.
3. What is the ultimate source of energy for almost all organisms? Sun
4. A consumer that only eats other producers is called a(an) Carnivore
5. What term is used to describe a linear sequence in which energy is transmitted from one organism to the next as organisms eat another organism? Food Chain
6. What term is used to refer to the many feeding relationships that are possible in an ecosystem?
Food Web
7. What type of vegetation would you expect to find on an abandoned farm that has been undisturbed by humans for 150 years? Tall, mature oak trees
8. Which gas makes up 78% of our atmosphere? Nitrogen
9. Which of the following organisms would be found at the top of an energy pyramid? = Killer whale
10. Humans usually get the phosphorous that their bodies need from eating plants + animals that contain phosphorus.
11. A process in which energy from the sun is used to make sugar molecules is called Photosynthesis
12. An atmospheric gas that increases when fossil fuels are burned = Carbon Dioxide
13. Evidence of excessive fertilizer use = Algal Bloom
14. A final and stable community = Climax Community
15. A type of succession that occurs on a surface where an ecosystem has previously existed =
Secondary
16. Organisms that float near the surface of water = Plankton
17. Factor that determines where aquatic organisms live = Oxygen
18. Bottom of a pond or lake = Benthic
19. Use stinging tentacles to capture prey = Corals
20. Which of the following is not an environmental function of wetlands?
 - a. Increasing runoff
 - b. Absorbing and removing pollutants from water
 - c. Trapping carbon that would otherwise be related into the air
 - d. Controlling floods
21. Photosynthetic organisms are found mainly in shallow water due to the availability of sunlight

22. In the eutrophic zone, aquatic life is diverse and abundant.
23. In the benthic zone, the water is call and dark.
24. What causes most coastal pollution in the United States? industrial waste + sewage
25. As they flow down a mountain to flatter ground, rivers generally become wider, warmer, and slower.
26. The three main properties of populations are Size, Density and Dispersion.
27. Exponential growth produces a J - shaped curve.
28. Symbiosis is a close, long-term association between two species.
29. Which of the following is one of the main properties used to describe a population?
- ☒ Number of individuals
 - ☐ Color of individuals
 - ☐ Number of species
 - ☐ Kind of adaptations
30. For a population's growth rate to be zero = The average # of births + deaths must be the same.
31. Each of the following is an example of a parasite except
- ☐ A roundworm in a human's intestine.
 - ☒ A cow in a pasture
 - ☐ A tick on a cat
 - ☐ Mistletoe on a tree
32. Exponential growth occurs when a population grows increasingly faster.
33. In which of the following relationships is neither species harmed? Parasitism
34. Unlike a predator in relation to its prey, a parasite does not usually kill its host.
35. The two main factors that cause a population to grow are Births and Immigration.

Matching:

- | | |
|----------------|-----------------|
| a. competition | d. mutualism |
| b. predation | e. commensalism |
| c. parasitism | |
- B** Species A benefits and species B is killed.
- A** Species A and B negatively affect each other.
- D** Species A and B both benefit.
- E** Species A benefits and species B is unaffected.
- C** Species A benefits and species B is harmed but not killed.