

Semester A Test Review - *Final Exam Study Guide*

## Short Answer

1. Name three natural hazards associated from volcanic eruptions in California.
2. Water is lost to the abiotic parts of the biosphere from the biotic parts by the process of \_\_\_\_\_.
3. Draw and label the water cycle. (transpiration, evaporation, condensation, precipitation)
4. In the water cycle, water is transferred from the atmosphere to the Earth by \_\_\_\_\_.
5. In the water cycle, water leaves the Earth and then is stored in the atmosphere by the process of \_\_\_\_\_ and \_\_\_\_\_.
6. In the water cycle, where does condensation occur?
7. Define carbon cycle.
8. The gradual increase of atmospheric CO<sub>2</sub> is probably due to \_\_\_\_\_.
9. All the water that soaks into the ground from rain and runoff is known as \_\_\_\_\_.
10. When rainfall occurs, the rainwater will most likely become surface runoff if the land surface is \_\_\_\_\_.  
permeable, impermeable
11. Nitrogen is released to the abiotic parts of the biosphere from the processes of death and \_\_\_\_\_ by bacteria.
12. Name an organism that can get carbon directly from the atmosphere.
13. To meet freshwater needs throughout the state, California has an intricate network of \_\_\_\_\_ and \_\_\_\_\_, or water projects.
14. Some \_\_\_\_\_ are capable of nitrogen fixation.
15. Seismic shaking is a measure of \_\_\_\_\_.
16. In an ecosystem, which component is not recycled?
17. The part of a water project that carries fresh water to where it is needed is an \_\_\_\_\_  
aquifer, aqueduct
18. The three main sources of California's freshwater supply are \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.
19. Most of the fresh water used in California is used for \_\_\_\_\_.
20. Carbon dioxide is the atmosphere enters the biotic parts of the biosphere through \_\_\_\_\_.
21. In describing California's water supply, there is more fresh water in the \_\_\_\_\_ part of the  
northern, southern  
state than in the \_\_\_\_\_ part.  
northern, southern
22. After a heavy rain, where is mudflow most likely to occur?
23. Ground water accounts for about \_\_\_\_\_ percent of the fresh water used in California.

Name: \_\_\_\_\_

ID: A

24. What is main purpose of the California aqueduct system?
25. There is a risk of \_\_\_\_\_ from faults in the Pacific Ocean near the California coast.
26. How are photosynthesis and respiration related?
27. What can you predict about the offsprings of animals that are crosses between separate species such as tigers and lions?
28. If all green plants died, would predators survive? Why?
29. In the following food chain:  
algae ----- insects ----- fish  
  
What would happen if all the fish were eaten?
30. What will happen if an organism is first introduced into an ecosystem with no predators?
31. Define primary succession.
32. Why is the actual population growth less than the potential population growth?
33. All members of one species that live in a small geographic area make up one \_\_\_\_\_.
34. Describe the flow of energy using the following terms: herbivore, producer, carnivore
35. In an experiment, the \_\_\_\_\_ is the proposed answer to the problem being tested.
36. The best experiments test only one \_\_\_\_\_ at a time.
37. What is the significant part of Darwin's finches when making evolutionary comparisons?
38. A clear fish imprint in a rock indicates that the rock is probably \_\_\_\_\_  
igneous, metamorphic, sedimentary
39. Earth formed approximately \_\_\_\_\_ years ago.
40. Define Natural Selection.
41. The founder of modern evolution theory is considered to be \_\_\_\_\_.
42. Give an example of a vestigial structure.
43. Describe what the beak of bird would look like if it was adapted to reach the nectar in flowers? If it was adapted to feed off small rodents?
44. The deeper a fossil is found in the ground, the \_\_\_\_\_ it is likely to be.  
younger, older
45. The Hawaiian islands were formed by \_\_\_\_\_.
46. A transform boundary occurs when \_\_\_\_\_
47. Which waves cause the most damage during an earthquake?
48. The magma of composite volcanoes is rich in \_\_\_\_\_.
49. Define "Ring of Fire."

Name: \_\_\_\_\_

ID: A

50. A convergent boundary occurs where \_\_\_\_\_

51. Igneous rock form from \_\_\_\_\_.