| FLPS |
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| Biology |

Biology Study Guide 2nd Semester

VOCABULARY / Directions: Using complete sentence define the following words

- 1. Binomial nomenclature
- 2. class
- 3. classification
- 4. division
- 5. family
- 6. genus
- 7. kingdom
- 8. order
- 9. phylum
- 10. taxonomy
- 11. cladistics
- 12. eubacteria
- 13. fungus
- 14. phylogeny
- 15. vestigial structure
- 16. camouflage
- 17. embryo
- 18. Homologous structure
- 19. mimicry
- 20. natural selection
- 21. adaptive radiation
- 22. allelic frequency
- 23. gene pool
- 24. genetic drift
- 25. polyploid
- 26. speciation
- 27. convergent evolution
- 28. geographic isolation
- 29. punctuated equilibrium
- 30. stabilizing selection

ESSAYS

Directions: Answer the questions using full and complete sentences

- 1. What type of evolutionary evidence do fossils provide?
- 2. Which type of natural selection favors the average individuals in a population?
- 3. A humming bird has wings that allows it to hover and fly backwards. What kind of adaptation is this?
- 4. What are the structural similarities between the fish and whale?
- 5. What is speciation due to physical barriers a result of?
- 6. How do species adapt to their environment over many generations according to Darwin?
- 7. What is the structural adaptation of an organism that enables it to resemble another harmful or distasteful species?
- 8. What is a subtle adaptation that allows an organism to blend in with its surroundings called?
- 9. What is the process called when a species finds its way to an island and then evolves into many species?
- 10. What is the scientific hypothesis that explains how an ancestral population of elephants speciated rapidly after a long period of stability called?
- 11. What do we first have to understand in order to understand population genetics?
- 12. What are the different sizes of peanuts in a bag called?
- 13. What kind of selection creates the existence of desirable characteristics in both crops and domestic animals?
- 14. What are the the wings of bats and the forelimbs of crocodiles examples of structually?
- 15. Why is DNA a useful tool for determining possible relationships among the species of organisms?
- 16. What is adaptive radiation?
- 17. When does divergent evolution occur?
- 18. When does convergent evolution occur?
- 19. If two organisms belong to the same family, what other taxonomic groups do the organisms have in common?
- 20. What would be a useful characteristic to use in cladistics?
- 21. What is the largest taxon?
- 22. What group of prokaryotes often live in extreme environments?
- 23. What is phylogeny?
- 24. What is the science that groups names and species called?
- 25. What is the branch of biology that groups and names organisms called?

- 26. What is a group of related classes of plants called?
- 27. What is a heterotrophic eukaryote absorbs nutrients from organic material in the environment called?
- 28. What is the placing of information or objects into groups based on similarities called?
- 29. What is the system for identifying two organisms that uses two words to name the species called?
- 30. What are most prokaryotes that live in most habitats called?
- 31. What was one shortcoming of Aristotle's classification system?
- 32. What are two advantages of using scientific names for organisms?
- 33. What did Linnaeus contribute to the field of taxonomy?
- 34. What is a taxon?
- 35. What are the taxa used in biological classification system? (from largest to smallest)
- 36. How does the fanlike diagram differ from the cladogram?
- 37. What organism does not have a nucleus bound membrane?
- 38. How do fungi obtain food?
- 39. What is an animal classified as?
- 40. What is geographical distribution?