

Biology - FIRST SEMESTER EXAM STUDY GUIDE

Chapter 1- Experimental Design and BRM pages 1-12

1. Define the following terms: control, constants, dependent variable, and independent variable
 - How will you recognize a constant, IV, DV, and control in a controlled experiment?
 - Be able to formulate a conclusion based on analysis of data
 - Be able to read and analyze a graph
 - Review in the BRM, pages 1-12 and your EDO diagram for experimental design

Chapters 18 through 29 – Biodiversity and BRM pages 13-40

- Use dichotomy to classify and identify organisms
- Explain the hierarchical relationship of the seven taxonomic groups and the criteria used to classify organisms:
 2. What are the seven taxonomic groups?
 3. Which group is the most inclusive? The least inclusive?
 4. What groups make up the scientific name?
 5. How do you write a scientific name by hand? Typed? Use *PARAMECIUM CAUDATUM* as an example.
 6. What is the science of classification called?
 7. Create a Venn Diagram for the following: K. Plantae, Angiosperms, Gymnosperms, All organisms, lily.
 8. List the five/six kingdoms of organisms, giving examples of each.
 - How do the kingdoms differ by cell type, cellular organization, mode of nutrition, presence of a cell wall, and habitat? Be able to give examples from each kingdom. Refer to page 13 in BRM
 9. What is the difference between a prokaryotic cell and a eukaryotic cell?
- Design, execute, and analyze a controlled experiment to test the anti-bacterial effectiveness of common household substances. Be able to identify which substance is the best and explain why. Refer to pgs. 18-19 in BRM and your lab report.
 10. What is the magnification of the eyepiece? What is the total magnification if you are using the eyepiece and 4X objective?
 11. Draw the three bacterial shapes and draw examples of the three arrangements of bacterial cells.
 12. How are members of archaeobacteria different from members of eubacteria?
 13. Why are viruses considered nonliving?
 14. What kingdom are bacteria found in the five-Kingdom classification? Six-Kingdom?
 15. Define cilia, flagella, and pseudopod. Give an example of a protist that uses each method of locomotion.
 16. Are protists eukaryotic or prokaryotic? Refer to your Protist Webquest.
 17. How do fungi obtain food?
 18. What are the individual filaments of fungi made up of?
 19. Are fungi eukaryotic or prokaryotic?
 20. Which fungus is unicellular?
 21. What are some positive and negative contributions of this kingdom?
 22. According to their characteristics, what were the first plants (most primitive)? How did plants continue to evolve? Give the correct order for the evolution of plants. Refer to page 25 in BRM.
 23. Why are mosses and ferns dependent on water?
 24. What are the plants that produce seeds? What are the advantages of bearing seeds to the plant?
 25. Why are angiosperms considered to be the most advanced and the latest plants to appear on Earth?
 26. What is the purpose of the flower? fruit?

First Semester Biology Study Guide Answers

Brooklyn Botanic Garden



First Semester Biology Study Guide Answers:

Reviewing **First Semester Biology Study Guide Answers**: Unlocking the Spellbinding Force of Linguistics

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