

Biology Final Exam Review Packet

Answer questions in complete sentences on a separate sheet of paper. The answers **MUST** be hand-written, unless given special permission in advance. This is due the day of your final exam.

This will not be accepted late.

Lab Skills, Microscope Work, and Scientific Experimentation

1. Explain what an experimental variable and a control setup are in scientific experiments.
2. List the steps for focusing a microscope and calculating the magnification of a microscope.

The Study of Life (Chapters 1 and 4)

3. What are the five properties of life?
4. What is the order of smallest to large: atom, molecule, cell, tissue, organ, organ system, individual, population, community, ecosystem, biosphere
5. Name the three types of symbiotic relationships and give examples of each.

Biochemistry and Water (Chapter 2)

6. Identify the four elements found in living things.
7. Give the function and examples of each of the following: Carbohydrates, Lipids, Proteins, and Nucleic Acids
8. What are enzymes, what do they do, and what factors affect enzyme function?
9. What is homeostasis?
10. List and describe the properties of water.

Cell Structure and Function (Chapter 7)

11. What are the 3 parts of the cell theory?
12. What are the differences between prokaryotic and eukaryotic cells?
13. What are the major differences between plant and animal cells?
14. List ten cell organelles and their functions.
15. Define semipermeable membrane, diffusion, osmosis, and passive transport.
16. Define hypertonic solution, hypotonic solution, and isotonic solution.
17. Explain how each of the type of solution in #16 would affect osmosis and describe the effect on a cell's volume.
18. Define active transport and explain how it differs from passive transport.

Photosynthesis and Cellular Respiration (Chapters 8 and 9)

19. Draw the ADP/ATP cycle.
20. What is photosynthesis (in words)? What type of energy conversion occurs?
21. Write an equation to represent the process of photosynthesis.

Nd Semester Biology Final Exam Review Packet

Hussin A.Rothana



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