

Name \_\_\_\_\_ Date \_\_\_\_\_

## Laboratory Biology Cell Biology Review Sheet

**Instructions:** Use this review sheet to organize and study the material on cell biology. Completing this review sheet will help you study for the test. Completed review sheets will earn 5 points of extra credit.

### Cells and Organelles

1. What are the 3 parts of the cell theory?
2. What are the 2 main types of cells? How do they differ?
3. What is the endosymbiont theory of cell evolution? What evidence exists to support this theory?
4. How large are cells? What limits cell size?
5. What organelles are found only in plant cells?
6. Briefly describe the function of all of the major cell organelles (those listed on your table).
7. Be able to label a diagram of plant or animal cell organelles.

### The Cell Membrane

8. What is the main component of plasma membranes?
9. Describe the arrangement of the plasma membrane.
10. What are the two sides of a phospholipid molecule? Which direction does each face?
11. According to the fluid-mosaic model, how are proteins distributed within the plasma membrane?
12. Diagram and label a phospholipid.
13. What is cholesterol? What is its function in the cell membrane?
14. What is a peripheral protein? Where is it found?
15. What is an integral protein? Where is it found?
16. Define selectively permeable.
17. What types of molecules cannot cross the cell membrane and why?
18. What types of molecules can pass through easily and why?
19. How can molecules that cannot normally enter through the membrane of the cell get in?

### Cell Transport

20. Define passive transport. What are the characteristics and the goal of passive transport?
21. What is diffusion?
22. What is osmosis?
23. Define and draw a simple diagram explaining the differences between isotonic, hypertonic and hypotonic solutions.
24. What is facilitated diffusion? How is it similar to and different from simple diffusion?
25. Define active transport. What are the characteristics of active transport?
26. What types of molecules are moved during active transport?
27. What is endocytosis? Draw a simple diagram of the process.
28. List and describe the 3 types of endocytosis.
29. What is exocytosis?

# Biology Review Sheet Answers Chapter 12

**Jessica J Manson**



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