

Biology Study Guide

Chapter 7, Cell Structure and Function

7:1

1. In your own words, state 3 points expressed in the Cell Theory.

2. What are the main differences between prokaryotic cells and eukaryotic cells?

7-2

3. Describe the function and structure of each of the following parts of the cell.

- organelles -

- cytoplasm -

Name _____ Period ____

Class Notes:

- nucleus –

Class Notes:

- nuclear envelope –

- nucleolus –

- ribosomes -

- endoplasmic reticulum –

- golgi apparatus

Class Notes:

- lysosomes –

- vacuole –

- mitochondria –

- chloroplasts

Class Notes:

- cytoskeleton

- microfilaments

- microtubules

- centrioles

7-3

Class Notes:

4. Describe the function and structure of the cell membrane.

5. Describe the structure and the main function of the cell wall?

6. Describe the process of diffusion. Is energy required for this process?

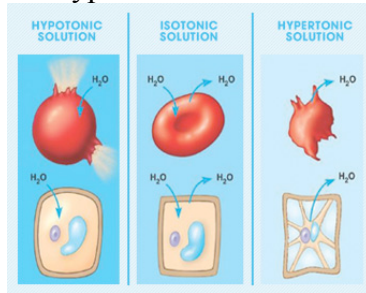
Class Notes:

7. Explain equilibrium.

8. Describe the process of osmosis.

9. Use the following diagram to define the terms hypotonic solution, hypertonic solution and isotonic solution.

Class Notes:



10. What is facilitated diffusion?

11. Define active transport.

12. Explain the difference between exocytosis and endocytosis.

Class Notes:

13. Describe the two types of endocytosis.

7-4

14. List the levels of organization in a multicellular organism.

15. Draw a cell and label its organelles.