

Chapter 4 and 5 Review Sheet

1. What are the smallest units of life in all living things?
2. How do cell surface area and volume relate to each other?
3. What are the differences between prokaryotes and eukaryotes cells?
4. What are cell membranes?
5. What structure regulates what enters and leaves the cell?
6. What is an organelle?
7. Know the functions of the following organelles
 - a. Mitochondria
 - b. Golgi apparatus
 - c. Cell wall
 - d. Endoplasmic reticulum
 - e. Chloroplasts
8. What is the correct order of organization of structures in living things, from simplest to most complex?
9. What is the ultimate result of diffusion of one substance in another?
10. What is diffusion and how does it occur?
11. Describe the movement of ions and their transport across cell membranes.
12. The sodium-potassium pump usually pumps ____ into the cell and ____ out of the cell.
13. Define
 - a. Active transport
 - b. Osmosis
 - c. Endocytosis
 - d. Exocytosis
 - e. Facilitated diffusion
 - f. Chemiosmosis