**CHAPTER 7 CELLULAR STRUCTURE AND FUNCTION VOCABULARY**

**Section 1: The Cell Theory**

1. Cell
2. Cell theory
3. Compound light microscope
4. Electron microscope
5. Transmission electron Microscope
6. Scanning electron microscope
7. Scanning tunneling electron microscope
8. Atomic force microscope
9. Plasma membrane
10. Organelles
11. Eukaryotic cells
12. Nucleus
13. Prokaryotic cells
14. Endosymbiont theory

**Section 2: The Plasma Membrane**

1. Selectively permeable (semi-permeable)
2. Phospholipid bilayer
3. Transport proteins
4. Fluid mosaic model

**Section 3: Structures and Organelles**

1. Cytoplasm
2. Cytoskeleton
3. Microtubules
4. Microfilaments
5. Nucleus
6. Nuclear envelope
7. Chromatin
8. Ribosome
9. Nucleolus
10. Endoplasmic reticulum (ER)
    1. Smooth
    2. rough
11. Golgi apparatus
12. Vesicles
13. Vacuole
14. Lysosome
15. Centriole
16. Mitochondrion
17. Chloroplast
18. Chlorophyll
19. Chromoplast
20. Cell wall
21. Cilium
22. Flagellum

**Section 4: Cellular Transport**

1. Diffusion
2. Dynamic equilibrium
3. Facilitated diffusion
4. Carrier proteins
5. Osmosis
6. Isotonic solution
7. Hypotonic solution
8. Hypertonic solution
9. Active transport
10. Sodium potassium ATPase pump
11. Endocytosis
12. Exocytosis

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