

Cell Unit Test Study Guide (50 MC & 2 Free Response)

- **Know major advantages & disadvantages of compound light microscope, TEM, & SEM**
- **Prokaryotic v. Eukaryotic cells**
- **Know parts of cell theory**
- **Know contributions of Leewenhock, Hooke, Brown, Schleiden, Schwann, & Virchow**
- **Know structure & function(s) of:**
 - Plasma membrane
 - Cell wall
 - Nucleus (including chromatin, nuclear membrane, nucleolus)
 - Rough ER (2 major functions)
 - Ribosomes
 - Smooth ER (4 major functions)
 - Golgi Apparatus
 - Vesicles/Vacuoles (contractile vacuole, central vacuole, transport vesicles)
 - Lysosomes
 - Mitochondria
 - Chloroplasts
 - Cytoskeleton (Microtubules, Microfilaments, & Intermediate Filaments)
 - Centrioles
 - Cilia & Flagella
 - Be able to identify cell parts on a cell diagram.
- Three types of animal cell junctions: tight junctions, spot desmosomes (anchoring junctions), & gap junctions
- Function of plasmodesmata in animal cells
- Know what the theory of endosymbiosis says about origins of mitochondria & chloroplasts in the development of eukaryotic cells.
- Be able to compare & contrast diffusion, facilitated diffusion, & active transport regarding direction of molecular movement, whether or not energy is required, & whether the membrane's transport proteins are involved in the process. Know examples of molecules that can enter the cell by each process.
- Endocytosis v. Exocytosis (Phagocytosis, Pinocytosis, & Receptor-mediated Endocytosis)
- Three steps in a signal transduction pathway: reception, transduction, response.
- Essay Hints:
 - Be able to write about structure & functions of organelles (this will have a "choice" component.)
 - Be able to discuss the differences in prokaryotic & eukaryotic cell structures.
 - Endosymbiotic Theory
 - Be able to discuss different mechanisms of transport across cell membranes & be able to give examples for each . (You will have a choice component for the mechanism)

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Jake Nolan



Cell Unit Test Study Guide:

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