

Chapter 3: Cells: The Living Units Study Guide

*This is only a guide to help you study and get you started! You are responsible for all material covered in the lectures and in the assigned textbook chapters! I suggest you print out this guide and write the definitions and answers to the review questions on it. I would recommend using a three- hole punch and inserting it into the binder you are keeping your notes in. This will help you to organize your study tools and prepare for the final exam.

Chapter 3: Module 1 (Pg. 91 -103)

Vocabulary:

Vocabulary words should be defined/described using your notes AND book rather than a dictionary. Definition's for general use of words is often very different than scientific use. You may also want to use the flash card link.

cell, cell theory, organelle, plasma membrane, cytoplasm, nucleus, extracellular, intracellular, ICF, ECF, phospholipid, phospholipid bilayer, polar head, nonpolar tail, glycoprotein, cholesterol, glycocalyx, glycolipid, peripheral proteins, integral proteins, hydrophilic, hydrophobic, fluid-mosaic model, tight junction, desmosome, gap junction, selectively permeable, passive transport, active transport, simple diffusion, facilitated diffusion, concentration gradient, Brownian motion, carrier-mediated facilitated diffusion, channel-mediated facilitated diffusion, osmosis, osmolarity, hydrostatic pressure, osmotic pressure, tonicity, hypertonic, hypotonic, isotonic, aquaporins, crenation, lysis

Review Questions:

The answers to the review questions are in your notes. These questions are in general in the order you will find them in your note set.

Discuss the four components of the cell theory.

Explain the statement: Cells are diverse.

List and describe the three main components (parts) of a generalized cell.

Describe plasma membrane structure. Do you understand why the phospholipid heads are out and tails are in?

List and describe the functions of plasma membrane proteins.

Name and describe the three types of cell junctions discussed in lecture. Where are each found and what is the function of each? How is structure and function related?

Discuss movement of particles through the plasma membrane.

Name and explain the 3 factors that affect the speed of diffusion.

Compare and contrast carrier and channel mediated facilitated diffusion.

Define osmosis, what is the effect of a hypertonic solution on a cell, hypertonic, isotonic? How does water move across the cell membrane?

Cells The Living Units Study Guide Answers

Arihant Experts



Cells The Living Units Study Guide Answers:

Uncover the mysteries within is enigmatic creation, **Cells The Living Units Study Guide Answers** . This downloadable ebook, shrouded in suspense, is available in a PDF format (*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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