

**Advanced Nutrition and Human Metabolism, 7e Sareen Gropper,
Jack Smith, Timothy Carr (Instructor Manual All Chapters, 100%
Original Verified, A+ Grade)**

**Instructor's Manual
Advanced Nutrition and Human Metabolism, Gropper, 7e
Chapter 1 – The Cell: A Microcosm of Life**

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- Worksheet 1: Responding to Research – Mitochondria and Aging
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Chapter Outline

I. Introduction

1. This chapter provides a brief review of the basics of a cell, including cellular components, biological energy, and an overview of a cell's natural life span.
2. Key Terms
 - a. Cells – basic living, structural, and functional units of the human body
 - b. Eukaryotic cells – multicellular organisms
 - c. Prokaryotic cells – primitive cells
 - d. Plasma membrane – sheet-like structure that encapsulates and surrounds the cell, allowing it to exist as a distinct unit
3. Figures and Tables
 - a. Figure 1.1 – three-dimensional depiction of a typical mammalian liver cell

II. Components of Cells

A. Plasma Membrane

1. Sheet-like structure that encapsulates and surrounds the cell. It is asymmetrical and considered to be a fluid structure
2. Key Terms
 - a. Hydrophobic – molecule or part of molecule that repels water but has strong affinity for nonpolar substances
 - b. Receptors – macromolecules that bind a signal molecule with a high degree of specificity that triggers intracellular events
 - c. Enzymes – protein catalysts that increase the rate of a chemical reaction in the body
3. Figures and tables
 - a. Figure 1.2 – lipid bilayer structure of biological membranes
 - b. Figure 1.3 – fluid model of cell membrane. Lipids and proteins are mobile and can move laterally in the membrane

Advanced Nutrition And Human Metabolism Study Guide

JR Anderson



Advanced Nutrition And Human Metabolism Study Guide:

Unveiling the Magic of Words: A Review of "**Advanced Nutrition And Human Metabolism Study Guide**"

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