

Anatomy and Physiology I

Final Exam Study Guide

From Exam 1: Lesson 2

(slides 3-18, 21-31, 35-52)

Introduction

- 1665 Robert Hooke inspected thin slices of cork and found they consisted of millions of small, irregular units
- This research produced the cell theory
 - Cells are building blocks of all plants and animals
 - All cells come from division of preexisting cells
 - Cells are smallest units that perform all vital physiological functions
 - Each cell maintains homeostasis at cellular level
- Cytology- the study of cellular structure and function; part of cell biology- integrates aspects of biology, chemistry and physics
- Two general classes of cells:
 - Sex cells (germ/reproductive cells)-are either the sperm of males or oocytes of females
 - Somatic cells- include all other cells in human body

3-1

- Plasma membrane- outer boundary of a cell, also called cell membrane
 - Physical isolation-physical barrier that separates inside of cell from surrounding extracellular fluid
 - Regulation of exchange with environment- plasma membrane controls entry of ions and nutrients, eliminations of wastes and release of secretions
 - Sensitivity to environment- first part of the cell affected by changes in the composition, concentration or pH of extracellular fluid
 - Contain receptors that allow cell to recognize and respond to specific molecules in its environment
 - Structural support- specialized connections between plasma membrane, or between membranes and extracellular materials give tissues stability
- Plasma membrane is extremely thin and contains lipids, proteins and carbohydrates
- Membrane lipids-form most of the surface area of the plasma membrane but only make up 42% of its weight
 - Plasma membrane is called the Phospholipid bilayer-phospholipid molecules in it form two layers
 - Has hydrophilic end (phosphate portion) and hydrophobic end (lipid portion)
 - In each half of bilayer, lie with hydrophilic heads at membrane surface and hydrophobic tails in inside
 - Also contains cholesterol and small quantities of other lipids
 - Water and solutes cannot cross the lipid portion of the plasma membrane
- Membrane proteins-account for about 55% of weight of plasma membrane
 - Integral proteins-part of membrane structure and cannot be removed with damaging/destroying the membrane
 - Most span the width of the membrane one or more times, therefore known as transmembrane proteins
 - Greatly

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