

ANATOMY and PHYSIOLOGY

"The study of **structure** and **function** of the body"

ANATOMY

- *Ana means "apart" Tomy means "to cut"*
- *The scientific discipline that investigates the **STRUCTURE** of the body*
- *Systemic Anatomy- by **SYSTEM**.*
- *Regional Anatomy- by **AREAS**.*
- *Surface Anatomy- external features*
- *Anatomical Imaging- involves the use of X-Ray, MRI, Ultrasound, etc.*

PHYSIOLOGY

- *The scientific discipline that deals with the processes or **FUNCTIONS** of living things*

Structural and Function Organizational of the Body

The Major Goals of Physiology

1. *To understand and predict the body's responses to stimuli*
2. *To understand how the body part works*

1. CHEMICAL LEVEL

- simplest level of the structural ladder
- includes atoms and molecules
- Ex: Deoxyribonucleic Acid (DNA) & Glucose

2. CELLULAR LEVEL

- basic structural and functional units of an organism that are composed of chemical.
- **CYTOLOGY**- study of the microscopic appearance of cell
- Ex: Muscle Cell, Nerve Cell, Epithelial Cell

3. TISSUE LEVEL

- group of cell that perform the same function
- **HISTOLOGY**- study of tissues
- **4 TYPES OF TISSUE**
- 1. Epithelial Tissue- covers body surface; lines hollow organs and cavities and forms glands.
- 2. Connective Tissue- connects, supports and protects body organs while distributing blood vessels to other tissue
- 3. Muscle Tissue- contracts to make body part move and generates heat
- 4. Nervous Tissue- carries information through nerve impulses

Anatomy And Physiology Chapter One

JS Bruner



Anatomy And Physiology Chapter One:

CliffsStudySolver: Anatomy and Physiology Steven Bassett, 2007-05-03 The CliffsStudySolver workbooks combine 20 percent review material with 80 percent practice problems and the answers to help make your lessons stick CliffsStudySolver Anatomy Physiology is for students who want to reinforce their knowledge with a learn by doing approach Inside you'll get the practice you need to bone up on body systems and more with problem solving tools such as Straightforward concise reviews of every topic Terms and principles for each subject Helpful charts and illustrations Practice problems in every chapter with explanations and solutions A diagnostic pretest to assess your current skills A full length exam that adapts to your skill level Starting off with an introduction to anatomical terms and physiological concepts this workbook ventures into cellular structure cell reproduction and chemistry both organic and inorganic You'll explore the muscular central nervous lymphatic and endocrine systems plus details about Skin hair nails and glands Bones of the cranium sternum and vertebral column The five senses Blood composition and types Metabolism of fat protein and carbohydrates The male and female reproductive systems Practice makes perfect and whether you're taking lessons or teaching yourself CliffsStudySolver guides can help you make the grade Author Steven Bassett started teaching anatomy and physiology at the high school level in 1978 He has been the lead instructor for anatomy and physiology at Southeast Community College in Lincoln Nebraska since 1990 He is adjunct professor in the Physician's Assistance Program at Union College in Lincoln , Study Guide for Understanding Pathophysiology - E-Book Sue E. Huether, Kathryn L. McCance, Clayton F. Parkinson, 2011-12-06 Designed to be used in tandem with the Understanding Pathophysiology 5th Edition textbook this study guide provides an in depth review of the most important pathophysiology facts and information Learning objectives Memory Check boxes and practice examinations for each chapter hone your understanding and help you review key concepts from the text This edition also features a greater variety in exercises and more case study questions for further analysis Answers to the practice examinations and a discussion of each case study question can be found in the back of the study guide Comprehensive coverage corresponds with the main text the bestselling pathophysiology text on the market Learning objectives keep your focus on the essential information in the text Memory Check boxes help you remember key points from the text Algorithms include flowcharts of diseases and disorders Practice examinations provide immediate feedback on content learned More than 35 case studies improve your critical thinking skills Answers to case studies and practice examinations appear at the end of the book so you can receive immediate feedback 1000 questions offer complete coverage of all areas of pathophysiology Updated content reflects the major updates in the main text particularly in the units on mechanisms of self defense cellular proliferation and the neurologic system More case studies and a greater variety of exercises have been added to this edition to strengthen your understanding of textbook concepts Air Force AFM. , 1965 **Air Force Manual** United States. Department of the Air Force, 1965 **Pathophysiology** Kathryn L. McCance, Sue E. Huether, Clayton

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