

## Chapter 4 Study Guide

### Tissue: The Living Fabric

- Define the term histology versus cytology.

**Histology** is the study of the microscopic structure of animal or plant tissues.

**Cytology** is the exam of a single cell type, as often found in fluid specimens.

- Name the three types of germ tissue and describe the adult tissues into which they differentiate.

- **Ectoderm** - epidermis of integumentary system and all components of the nervous system.
- **Mesoderm** - components of the skeletal, muscular and circulatory system.
- **Endoderm** - Functional linings of digestive, respiratory, urogenital tracts and associated glands and organs.

- Name the four principle tissue types and briefly describe each.

- **Epithelial tissues** – Covers exposed surfaces, lines internal passageways, produces glandular secretions.
- **Connective tissues** – Fills internal spaces, provides structural support, and stores energy.
- **Muscle tissues** – Contracts to produce active movements. Excitable (responds to stimulation).
- **Nervous tissues** – Conducts electrical impulses, detects, interprets, and responds to stimuli. Excitable.

- Describe the location and function of the various types of membranes of the human body.

- **Mucous membranes** – Epithelial tissues. Line body cavities that open to exterior (Digestive, Respiratory, Urogenital tracts). Secrete mucous (wet/moist), which reduces friction, supports absorption/secretion.
- **Serous membranes** – Mesothelium supported with areolar tissue. Never exposed/connected to exterior. Secrete transudate/serous fluid for lubrication.
  - **Pleura** – Lines the chest cavity and surrounds the lungs.
  - **Pericardium** – Lines the pericardial cavity and surrounds the heart.
  - **Peritoneum** – Lines the peritoneal cavity and lines the surfaces of the visceral organs.
- **Cutaneous membranes** – Stratified squamous epithelium and areolar tissue supported with dense irregular CT. Dry, relatively thick, and water proof.
- **Synovial membranes** – Epithelium with some differences – develops within a CT, no basal lamina, gaps of up to 1mm may separate adjacent cells, continuous exchange of fluid and solutes from synovial fluid. Lines mobile joint cavities but not opposing bone surfaces.

- List the structural and functional characteristics common to all epithelial tissue.

- **Simple**=only one layer thick
- **Stratified**=more than one layer thick
- **Pseudostratified**= "false layers"; it looks like more than one layer but in fact its only one layer thick
- **Epithelia provide physical protection.** Epithelial tissues protect exposed and internal surfaces from abrasion, dehydration, and destruction by chemical or biological agents.
- **Epithelia control permeability.** Any substance that enters or leaves the body has to cross an epithelial tissue. Some epithelia are relatively impermeable, whereas others are permeable to compounds as large as proteins. Most are capable of selective absorption or secretion. The epithelial barrier can be regulated and modified in response to various stimuli. For example, a callus forms on your hands when you do rough work for an extended period of time

# Tissue Study Guide Chapter 4

**Lois A Ball**



## **Tissue Study Guide Chapter 4:**

**Study Guide for The Human Body in Health & Disease - E-Book** Kevin T. Patton, Frank B. Bell, Terry Thompson, Peggie L. Williamson, Eric L. Sun, 2023-03-02 Reinforce your understanding of the concepts in Patton's *The Human Body in Health & Disease* Corresponding to the chapters in the text this study guide reviews essential medical terminology concepts and processes related to anatomy and physiology and explains how body systems function in health and disease Each chapter begins with a quick synopsis of the key points in the textbook chapter A variety of exercises make it easier to review and apply key concepts and labeling of anatomy drawings helps in learning anatomical terms and structures Know your Medical Terms feature helps familiarize you with the various word parts used in medical terminology and pairs nicely with the Language of Medicine word lists in the main text to reinforce medical terminology concepts that are key to understanding A P Brief synopsis of core textbook concepts provides a comprehensive review of essential content Crossword Puzzles and Word Finds help you master new vocabulary terms Application Questions ask you to make judgments based on the information in the chapter Diagrams and labeling exercises help reinforce where the structures of the body are located Matching and fill in the blank exercises aid in understanding chapter content Answers to exercises are provided in the back of the guide along with references to the appropriate textbook page and the textbook objective so that you can easily find where the material is presented Study tips in the Preface provide an overview of the most effective methods for learning and retaining information

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*Study Guide for Introduction to Human Anatomy and Physiology - E-Book - Revised Reprints* Lois A Ball, 2016-11-15 Study Guide for Introduction to Human Anatomy and Physiology E Book Revised Reprints

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**Study Guide for The Anatomy and Physiology Learning System** Edith Applegate, 2010-03-30 Designed to accompany The Anatomy and Physiology Learning System 4th Edition by Edith Applegate this study guide helps you learn and review basic A P concepts Each chapter emphasizes medical terminology with a set of key terms word parts clinical terms and abbreviations and then adds a variety of fun filled learning exercises review questions a quiz and a word puzzle The study guide corresponds to the textbook chapter for chapter Chapter learning objectives help you focus on the most important material Key concepts are defined on the first page of each chapter in the workbook Learning exercises for each chapter include short answer matching and diagrams to label and color Self quizzes allow you to measure your progress and understanding Fun and Games features end each chapter with a variety of engaging puzzles covering words and concepts A chapter summary provides a brief review of each chapter A chapter review provides questions for reinforcement and review of the concepts in each chapter

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