

- Cells that have similar or closely related functions are bound together by intercellular substance to form bigger structural and functional units called **tissues**
- 4 basic types of tissues → common morphological characteristics
 - Epithelial tissue (epithelium)
 - Connective tissue
 - Muscle tissue
 - Nervous tissue
- The basic tissues combine in variable proportions to form **organs** which are in turn organized into **organ systems**

Functions of Epithelial Tissue

- Forms the covering of all external surfaces and the lining of internal surfaces of the body
- Forms secretory units and the lining of the ducts of all exocrine glands, and the secretory units of all endocrine glands
- Skin – protective function
- Glands – the function is to form the secretory units
- GI Tract – serves as an absorptive surface

Embryonic Origin of Epithelial Tissue

- the epithelium is derived from all three embryonic germ layers
 - **Ectoderm:** epithelium that covers the external surfaces of the body
 - Epidermis of skin and its appendages
 - Epithelium of the cornea of the eye
 - **Endoderm:**
 - Lining of the digestive tract (except for mouth and anus → ectoderm)
 - Liver, gall bladder, pancreas, respiratory tract, urinary bladder and urethra
 - **Mesoderm:**
 - Heart, blood, lymphatic vessels, serous cavities, epithelium of urinary system, male and female repro. system.

Characteristics of Epithelial Tissue

- Epithelial tissue is highly cellular
- Composed of cells that are closely packed together with minimal intervening intercellular substance
- Avascular – no blood vessels present between cells
- Cells exhibit polarity – surfaces identifiable by position of organelles and surface modifications
 - Basal
 - Lateral
 - Superficial (apical)



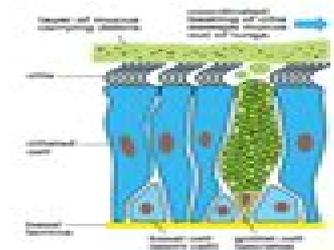
Epithelium General

Classification

- **Surface epithelium** → all exposed surfaces
 - Covering epithelium – covers external body surfaces → externally located
 - Lining epithelium – lines body cavities and ducts of glands with ducts → internally located
- **Glandular epithelium**
 - Forms glands – cells are specialized to produce macromolecules (secretions)

Basal Lamina, Lamina Fibroreticularis and the Basement Membrane

- In the epithelium, the basal surfaces of the deepest layer of cells rest on a sheet of amorphous material called **basal lamina**
 - the basal lamina is a product of epithelial cells
- Rich in glycoproteins and proteoglycans
- Separates the epithelium from the underlying connective tissue
- Basal lamina completely envelops individual muscle cells, fat cells, Schwann cells, cells of adrenal medulla etc.
- 20 – 100 nm thick



Epithelial Tissue Study Guide Answers

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Epithelial Tissue Study Guide Answers:

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Table of Contents Epithelial Tissue Study Guide Answers

1. Understanding the eBook Epithelial Tissue Study Guide Answers
 - The Rise of Digital Reading Epithelial Tissue Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Epithelial Tissue Study Guide Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Epithelial Tissue Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Epithelial Tissue Study Guide Answers
 - Personalized Recommendations

- Epithelial Tissue Study Guide Answers User Reviews and Ratings
- Epithelial Tissue Study Guide Answers and Bestseller Lists
- 5. Accessing Epithelial Tissue Study Guide Answers Free and Paid eBooks
 - Epithelial Tissue Study Guide Answers Public Domain eBooks
 - Epithelial Tissue Study Guide Answers eBook Subscription Services
 - Epithelial Tissue Study Guide Answers Budget-Friendly Options
- 6. Navigating Epithelial Tissue Study Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Epithelial Tissue Study Guide Answers Compatibility with Devices
 - Epithelial Tissue Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Epithelial Tissue Study Guide Answers
 - Highlighting and Note-Taking Epithelial Tissue Study Guide Answers
 - Interactive Elements Epithelial Tissue Study Guide Answers
- 8. Staying Engaged with Epithelial Tissue Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Epithelial Tissue Study Guide Answers
- 9. Balancing eBooks and Physical Books Epithelial Tissue Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Epithelial Tissue Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Epithelial Tissue Study Guide Answers
 - Setting Reading Goals Epithelial Tissue Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Epithelial Tissue Study Guide Answers
 - Fact-Checking eBook Content of Epithelial Tissue Study Guide Answers

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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