

# Epithelial Tissue: Structure, Function, and Classification

Biology · Practice Test · 23 Questions

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**1. What are the two main types of epithelia mentioned in the text?**

- A) Surface epithelia and solid organs
- B) Apical and basal epithelia
- C) Simple and stratified epithelia
- D) Covering and glandular epithelia

**2. Epithelial tissue consists of closely packed cells with a small amount of what?**

- A) Intercellular substance
- B) Extracellular matrix
- C) Cytoplasm
- D) Nuclei

**3. Which of the following is NOT listed as a function of epithelium?**

- A) Barrier and protection
- B) Energy storage
- C) Selective permeability
- D) Absorption

**4. What is a characteristic of epithelial tissue related to its surfaces?**

- A) Polarized
- B) Avascular
- C) Innervated
- D) Highly vascular

**5. Which of these is an apical surface specialization of epithelial cells?**

- A) Microvilli
- B) Basement membrane
- C) Reticular lamina
- D) Basal lamina

**6. The basement membrane commonly consists of two layers. What are they?**

- A) Basal lamina and reticular lamina
- B) Apical and basal lamina
- C) Epithelial and connective layers
- D) Serous and mucous layers

**7. What is one function of the basement membrane?**

- A) Restrict passage of larger molecules
- B) Facilitate rapid cell division
- C) Provide structural support to the lumen
- D) Enhance cell-to-cell communication

**8. Epithelial tissues are classified according to two main characteristics. What are they?**

- A) Arrangement of cells into layers and shapes of the cells
- B) Presence of microvilli and cilia
- C) Location and function
- D) Type of secretion and duct structure

**9. What term describes an epithelium with a single layer of cells?**

- A) Simple (unilaminar) epithelium
- B) Stratified (multilaminar) epithelium
- C) Pseudostratified epithelium
- D) Transitional epithelium

**10. Which cell shape is characterized by being flat?**

- A) Squamous
- B) Cuboidal
- C) Columnar
- D) Transitional

**11. Simple squamous epithelium is found in what locations?**

- A) Serous cavity, vessels
- B) Kidney tubules, smaller ducts of glands
- C) Gastrointestinal tract, gallbladder
- D) Respiratory tract

**12. What is the primary function of simple squamous epithelium?**

- A) Filtration, diffusion, secretion
- B) Secretion and absorption
- C) Protection
- D) Stretching

**13. Simple cuboidal epithelium is characterized by single layer of what shape cells?**

- A) Cube-shaped
- B) Flat
- C) Column-like
- D) Dome-like

**14. Where is simple cuboidal epithelium primarily located?**

- A) Kidney tubules and smaller ducts of many glands
- B) Gastrointestinal tract and gallbladder
- C) Respiratory tract
- D) Epidermis of skin

**15. Simple columnar epithelium has a single layer of what type of cells?**

- A) Column-like
- B) Squamous
- C) Cuboidal
- D) Transitional

**16. The gastrointestinal tract and gallbladder are locations for which type of epithelium?**

- A) Simple columnar epithelium
- B) Simple squamous epithelium
- C) Simple cuboidal epithelium
- D) Pseudostratified columnar epithelium

**17. Pseudostratified columnar epithelium has nuclei that appear to lie in various layers, but all cells are attached to the:**

- A) Basal lamina
- B) Apical surface
- C) Reticular lamina
- D) Connective tissue

**18. The respiratory tract is a common location for which type of epithelium?**

- A) Pseudostratified columnar epithelium
- B) Stratified squamous epithelium
- C) Transitional epithelium
- D) Simple columnar epithelium

**19. Stratified squamous epithelium consists of how many or more layers of cells?**

- A) Two
- B) One
- C) Three
- D) Four

**20. Keratinized stratified squamous epithelium is found mainly in the:**

- A) Epidermis of skin
- B) Mouth, esophagus, and vagina
- C) Urinary bladder
- D) Conjunctiva of the eye

**21. Nonkeratinized stratified squamous epithelium lines wet cavities such as the:**

- A) Mouth, esophagus, and vagina
- B) Epidermis of skin
- C) Kidney tubules
- D) Bronchi

**22. Stratified cuboidal epithelium is found in the ducts of which glands?**

- A) Sweat glands
- B) Mammary glands
- C) Salivary glands
- D) Thyroid glands

**23. Stratified columnar epithelium is described as rare and present in small areas.**

**Where is it found?**

- A) Conjunctiva of the eye
- B) Urinary bladder
- C) Epidermis of skin
- D) Gastrointestinal tract