

31. Epithelial Tissue Podcast
Study Guide
BIO 122 – Principles of Modern Biology

I. Introduction

A. Location

1. General
2. Examples

B. Function

1. General
2. Selectivity
3. Specific

C. Cells and basement membrane

II. Classification

A. Based on shape of cell

1. Squamous

2. Cuboidal

3. Columnar

B. Based on number of layers above basement membrane

1. Simple

2. Stratified

3. Pseudostratified

4. Transitional

C. Combination of two classification systems

1. Simple

2. Stratified

III. Mucosas

A. Definition

B. Where found

1. Digestive tract
2. Respiratory tract

IV. Glands

A. Definition

B. Classification

1. Exocrine
2. Endocrine

Questions:

1. What is the most characteristic physical feature of epithelium?
2. List three functions of epithelium.

3. What is the difference between squamous vs cuboidal vs columnar epithelium
4. Compare and contrast transitional vs pseudostratified epithelium.
5. What are mucosas, and how are they important to mammals?
6. Explain the similarities and differences between exocrine and endocrine glands.