

Epithelial Tissue Study Questions

1. What are the four primary types of tissues found in the human body? What is the distinguishing characteristic of each type of tissue?

There is Epithelial, Connective, Muscle, and Nerve tissues. Epithelial is the covering of systems without intercellular substance. Connective is with intercellular substance. The muscle and nerve tissues are with the elongated cells.

2. Name and describe the six main characteristics of epithelial tissue.

1. Cellularity: a bunch of cells that are cohesive (sticks together)
2. Polarity: apical and basal surfaces
3. Attachment: to basement membrane
4. Avascular: no blood vessels
5. Layers of the cell: simple(1) and stratified (2+)
6. Regeneration: stem cells

3. Describe the functions of epithelial tissue in the human body.

Protection, secretion, excretion, absorption, filtration, sensory reception. What is sensory reception? - vision (rods and cones / sensory) slide 15.

4. What can the shape and number of layers of a particular type of epithelial tissue indicate about the function of that tissue? Give specific examples.

If the tissue is simple it can be absorption, secretion, diffusion, excretion, or filtration. If it's stratified it can be protection.

5. Draw and describe the various types of simple and stratified epithelium. Give an example of where each of these tissues is found in the body.

Squamous(lung), cuboidal(kidney), and columnar(intestines).

6. What are the two major categories of epithelial tissues found in the body?

7. What are microvilli and cilia? How do they differ from one another?

Microvilli is the spikes on the top of cells. Is it more absorption and secretion. The cilia is longer than the microvilli and is motile.

8. What is the specific purpose of glandular epithelium? What are the two major categories of glandular epithelium? How do these two types differ from one another?

The granular helps with secreting bodily fluids. It includes the endocrine and the exocrine glands. One is internal and the other is external(exocrine).

9. What is a unicellular exocrine gland and where are they often found?

They are found in goblet cells - single cells

10. What does it mean for a gland to be "simple" or for a gland to be "compound?"

What does "tubular" and "alveolar" refer to in respect to exocrine glands?

Simple is an unbranched duct and a compound has multiple ducts.

11. Exocrine glands have three major modes of secretion. Name and describe these modes of secretion. Give an example of a specific gland in the body that uses each secretion mode.

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M Lipman



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