Epithelial Tissue

1. The number of blood vessels in a stratified squamous epithelium is _________________ the number of blood vessels in a pseudostratified columnar epithelium.
   a. Greater than
   b. Less than
   c. The same as

2. Smoking causes the number of functioning cilia in the respiratory tract to:
   a. Increase
   b. Decrease
   c. Not change

3. The number of cells in a centimeter$^2$ of epithelial tissue is _________________ the number of cells in a centimeter$^2$ of areolar connective tissue.
   a. Greater than
   b. Less than
   c. The same as

4. The distance from the basement membrane to the basal surface of a simple columnar epithelial cell is _________________ the distance from the basement membrane to the apical surface of a simple columnar epithelial cell.
   a. Greater than
   b. Less than
   c. The same as

5. The number of layers in a simple epithelium is _________________ the number of layers in a stratified epithelium.
   a. Greater than
   b. Less than
   c. The same as

6. Which of the following cell types is the WORST at making large quantities of proteins?
   a. Simple squamous epithelial cell
   b. Simple cuboidal epithelial cell
   c. Simple columnar epithelial cell

7. _________________ epithelium is found in the lungs at the site of gas exchange.
   a. Simple squamous
   b. Simple cuboidal
   c. Simple columnar
   d. Pseudostratified columnar

8. Renal tubules are composed of _________________ epithelium.
   a. Simple squamous
   b. Simple cuboidal
   c. Simple columnar
   d. Pseudostratified columnar
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9. The lining of blood vessels is _____________ epithelium.
   a. Simple squamous
   b. Transitional
   c. Simple columnar
   d. Pseudostratified columnar

10. The surface area of a cell with apical microvilli is _____________ the surface area of a cell without apical microvilli.
   a. Greater than
   b. Less than
   c. The same as

11. _____________ cells secrete mucus.
   a. Goblet
   b. Mucoid epithelial
   c. Pseudociliated
   d. All connective tissue
   e. All epithelial

12. A lack of functioning cilia would cause the amount of mucus unconsciously swallowed on a daily basis to:
   a. Increase
   b. Decrease
   c. Stay the same

13. The urinary bladder is lined by _________________ epithelium.
   a. Simple squamous
   b. Transitional
   c. Simple columnar
   d. Pseudostratified columnar
   e. Mucoid

14. Which of the following tissue types is best at stretching?
   a. Simple squamous
   b. Transitional
   c. Simple columnar
   d. Pseudostratified columnar
   e. Stratified squamous

15. Glands that secrete products into ducts are known as ______________ glands and are formed from _____________ tissue.
   a. Endocrine – epithelial
   b. Exocrine – epithelial
   c. Endocrine – connective
   d. Exocrine – connective
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16. The esophagus is lined by keratinized stratified squamous epithelium.
   a. True
   b. False

17. The trachea is lined by pseudostratified columnar epithelium.
   a. True
   b. False

18. The number of blood vessels in stratified squamous epithelium is ________________ the number of blood vessels in transitional epithelium.
   a. Greater than
   b. Less than
   c. The same as

19. The number of collagen fibers in a centimeter$^2$ of epithelial tissue is ________________ the number of collagen fibers in a centimeter$^2$ of areolar connective tissue.
   a. Greater than
   b. Less than
   c. The same as

20. Which of the following is TRUE?
   a. The oral cavity is lined by keratinized stratified squamous epithelium.
   b. The epidermis is composed of nonkeratinized stratified squamous epithelium
   c. Epidermal cells are linked by desmosomes
   d. Epithelial cells rarely undergo mitosis
   e. Exocrine glands secrete an incredibly diverse number of hormones

21. Which of the following is NOT TRUE?
   a. The trachea is lined by stratified columnar epithelium.
   b. Extracellular matrix contains a viscous liquid called ground substance
   c. Mast cells secrete histamine
   d. Blood is a liquid connective tissue
   e. Cartilage is generally softer than bone

In each of the remaining items, 2 quantities are given and are being compared.
Choose A if quantity A is the larger of the 2.
Choose B if quantity B is the larger of the 2.
Choose C if the 2 quantities are equal in size.

22. a. Number of cell layers in pseudostratified columnar epithelium
    b. Number of cell layers in transitional epithelium

23. a. Surface area of a cell with microvilli
    b. Surface area of the same cell without microvilli

24. a. Percentage of cilia that are functional in a non-smoker
    b. Percentage of cilia that are functional in a smoker
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25. a. Number of blood vessels found in a cm$^2$ of stratified squamous epithelium of the mouth
   b. Number of blood vessels found in a cm$^2$ of simple cuboidal epithelium of the kidney

26. a. Amount of keratin in the stratified squamous epithelium of the ventral hand
   b. Amount of keratin in the stratified squamous epithelium of the esophagus

27. a. Amount of transitional epithelium found inferior to the diaphragm
   b. Amount of transitional epithelium found superior to the diaphragm

28. a. Rate of diffusion through a simple squamous epithelium
   b. Rate of diffusion through a stratified cuboidal epithelium

29. a. Number of mitochondria in a simple squamous epithelial cell
   b. Number of mitochondria in a simple cuboidal epithelial cell

30. a. Average number of hormones secreted by an exocrine gland
   b. Average number of hormones secreted by an endocrine gland

31. a. Number of ducts attached to an endocrine gland
   b. Number of ducts attached to an exocrine gland