

Chapter Five Study Guide
Histology (W2025)

The Four Tissue Type

1. What is histology?
2. What are the four tissue types? What is the general function of each tissue type?
3. What is the relationship between cells and matrix? How may matrix be used to define a tissue type? What other terms maybe used to describe matrix?
4. What type of matrix is nicknamed the glue that holds cells together? Described as what?
5. What characteristics define epithelial tissue? Draw a picture to illustrate typical tissue.
6. What is the function of the basement membrane? Tissue type? What is below basement membrane? Significance?
7. What type of terms are used to describe the different configuration of epithelial tissue?
8. What is a goblet cell? Tissue type? Location? Where is the product deposited?
9. What type of epithelial cells line the respiratory tract?
10. What are the two type of stratified epithelial cells? Location?
11. What is the difference between a serous and mucous membranes? Location?
12. What is the difference between an endocrine gland and exocrine gland?
13. What are three methods used by glands to release their products? Names? Examples?
14. What are connective tissue characteristics? What is ratio between cellular and matrix volume?
15. What type of cells may we find in connective tissue?
16. What three types of fiber are in connective tissue matrix? What connective tissue cell makes these fibers? Characteristic of each fiber? What type of molecule constructs these fibers? How is this possible? What connective tissue fiber makes up 25% of the bodies proteins?
17. How may loose connective tissue be arranged? Locations?
18. How may dense connective tissue be arranged? Locations?
19. What is adipose tissue functions? Brown vs white fat?
20. What is the characteristics of cartilage? What are the three forms? Locations? Blood vessels?
21. What are the three cell types associated with cartilage? Functions?

Tissue Growth and Change

23. What changes take place to “normal cells” when there occurs hypertrophy, hyperplasia, atrophy, neoplasia, and metaplasia.

24. What is necrosis? What always occurs with necrosis? Common name for this event? Significance?

25. What is apoptosis? What does not occur with this type of cell death? Examples?

Tissue Repair and Wound Healing

26. What is regeneration? What tissues are good at this?

27. What is fibrosis? What connective tissue cell is responsible for this event? Significance?