

Unit 1 (general systems): course notes & text chapters 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
(NOT Ch. 3) cell, genetics, inflammatory, immune

Exam 1: Unit 1(chap1-14 except chap 3) completion deadline from **Monday, 23 to sunday 1/29/2023**

Learning objectives for this file:

1. Review tissue biology, cellular changes with injury & infection
2. Theories of cancer development
3. Theories of aging
4. Circadian cycles.
5. Immune response- immune cells, cell-mediated & humoral immunity
6. Immunoglobulins, complement
7. Active & passive immunity, blood immune system, CRP
8. Transportation immunology, auto-immune disease
9. Inflammation- cells, cytokines
10. Immediate & delayed inflammatory response
11. Arachidonic acid pathway, eicosanoids, CRP
12. Wound healing- normal, dysfunctional.

A. Tissue Biology

Tissues:

1. Extracellular matrix:

all cells are in contact with extracellular macromolecules. This holds cells in place. The extracellular matrix is an intricate meshwork of fibrous proteins embedded in a watery, gel-like substance composed of complex carbohydrates containing **elastin, fibronectin, and collagen**.

Desmosomes hold cells together by forming bands or belts while polypeptides form proteins.

2. Cytokines:

Chemicals made by cells that affect other cells growth & activity.

Three embryonic tissue types:

- . ectoderm : nerve, eye, skin
- . mesoderm: mesenchymal- muscle and GU
- . endoderm: visceral organs

a. Epithelial tissue:

May be smooth, or have microvilli, and/or cilia.

- . Simple (one layer) or stratified (2+ layers).
- . pseudostratified looks stratified but is one layer

Advanced Pathophysiology Lecture Notes

Mark Steyvers



Advanced Pathophysiology Lecture Notes:

Whispering the Strategies of Language: An Mental Journey through **Advanced Pathophysiology Lecture Notes**

In a digitally-driven earth wherever screens reign great and instant transmission drowns out the subtleties of language, the profound strategies and mental nuances hidden within phrases frequently get unheard. However, set within the pages of **Advanced Pathophysiology Lecture Notes** a captivating literary value pulsing with organic emotions, lies an exceptional quest waiting to be undertaken. Written by an experienced wordsmith, this charming opus encourages viewers on an introspective trip, delicately unraveling the veiled truths and profound impact resonating within ab muscles material of every word. Within the emotional depths of this touching evaluation, we will embark upon a sincere exploration of the book is key styles, dissect its fascinating writing style, and yield to the effective resonance it evokes deep within the recesses of readers hearts.

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