

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

N Colangelo



Advanced Pathophysiology Lecture Notes:

Advanced Pathophysiology Lecture Notes: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. Advanced Pathophysiology Lecture Notes : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Advanced Pathophysiology Lecture Notes : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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