

HUMAN BIOLOGY FINAL EXAM STUDY GUIDE

Bone structure

- Compact bone
 - is composed of osteons with a central canal containing blood vessels.
 - contains living bone cells called osteocytes in chambers called lacunae.

More detail on bone

- Spongy bone
 - is made of plates with spaces filled with red bone marrow.

Where are all the 3 types of cartilage found?

- Cartilage is flexible connective tissue categorized based on the type and arrangement of matrix fibers.
- Types
 - **Hyaline cartilage:** ends of long bones, nose, ends of ribs, larynx and trachea
 - **Fibrocartilage:** disks between vertebrae and in the knee (meniscus) ; stronger than hyaline cartilage
 - **Elastic cartilage:** ear flaps and epiglottis; more flexible than hyaline cartilage

Bones of the face and hyoid bone

- Facial bones
 - Mandible
 - Maxillae
 - Zygomatic bones
 - Nasal bones
- Hyoid
 - Only bone that does not articulate with another bone

What are the important cells in bone growth, repair, and remodeling?

- Osteocytes – mature bone cells that maintain bone structure (live in bone) derived from osteoblasts
- Osteoblasts – bone-forming cells (lay down bone)
- Osteoclasts – bone-absorbing cells (bone eaters)
- Chondrocytes – cartilage-forming cells

Osteoporosis

- Osteoporosis is a condition where bones are weakened due to a decreased bone mass.
- Bone reabsorption exceeds absorption usually by age 40.
- Risk factors include: women, white or Asian, thin, family history, early menopause, smoking, diet low in calcium, excessive caffeine or alcohol consumption, and a sedentary lifestyle.

The sarcomere

- Made of 2 protein myofilaments
 - A thick filament is composed of several hundred molecules of the protein myosin. Each myosin molecule is shaped like a golf club.
 - Primarily, a thin filament consists of 2 intertwining strands of the protein actin.
 - These filaments slide over one another during muscle contraction.

Human Biology Final Study Guide

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Human Biology Final Study Guide:

The Top Books of the Year Human Biology Final Study Guide The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing 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. Human Biology Final Study Guide : Delia Owens' "Where the Crawdads Sing" This mesmerizing 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 top-selling 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 captivating 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 gripping 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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