

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.

Final Exam Human Biology

Lingjun Ying



Final Exam Human Biology:

Reviewing **Final Exam Human Biology**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Final Exam Human Biology**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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