

## 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:**

## Enjoying the Melody of Term: An Mental Symphony within **Human Biology Final Study Guide**

In a world consumed by monitors and the ceaseless chatter of instantaneous connection, the melodic elegance and mental symphony created by the written term often fade into the background, eclipsed by the relentless noise and disturbances that permeate our lives. But, set within the pages of **Human Biology Final Study Guide** a wonderful literary value full of fresh feelings, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, this charming masterpiece conducts readers on an emotional journey, well unraveling the concealed tunes and profound impact resonating within each carefully constructed phrase. Within the depths of this poignant review, we will investigate the book is central harmonies, analyze their enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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