

## 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

**A Gutmann**



## **Final Exam Human Biology:**

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