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Crash Course Anatomy & Physiology #4: Tissues Part 3 - Connective Tissues

Name: _____ Date: _____

You can access the video here → <https://youtu.be/D-5zmUKNBH92s?e=mkGCT9uTy6Za1a>

- _____ tissue is the most abundant and diverse of the four main tissue types in the body.
- The four classes of connective tissue are proper, _____, bone, and blood.
- All connective tissues develop from a common embryonic tissue called _____.
- Connective tissues differ in their degree of _____, or blood supply.
- Most of the connective tissue is composed of nonliving material known as the _____.
- The extracellular matrix consists of ground substance and _____.
- The rubbery, unstructured material that fills spaces between cells is called _____.
- Proteins in the ground substance are called _____, which have strands called GAGs.
- The strongest and most abundant type of fiber in connective tissue is _____ fiber.
- _____ fibers are long, thin, and stretchy, made of the protein elastin.
- _____ fibers are fine, coated collagen fibers that form sponge-like networks.
- Immature connective tissue cells that form matrix are identified by the suffix _____.
- Mature connective tissue cells that maintain the matrix are identified by the suffix _____.
- _____ are large immune cells in connective tissue that consume pathogens and debris.
- A genetic disorder affecting connective tissue, especially elastic fibers, is called _____ Syndrome.

Crash Course Anatomy & Physiology #4: Tissues Part 3 - Connective Tissues KEY

- Connective** tissue is the most abundant and diverse of the four main tissue types in the body.
- The four classes of connective tissue are proper, **cartilage**, bone, and blood.
- All connective tissues develop from a common embryonic tissue called **mesenchyme**.
- Connective tissues differ in their degree of **vascularity**, or blood supply.
- Most of the connective tissue is composed of nonliving material known as the **extracellular matrix**.
- The extracellular matrix consists of ground substance and **fibers**.
- The rubbery, unstructured material that fills spaces between cells is called **ground substance**.
- Proteins in the ground substance are called **proteoglycans**, which have strands called GAGs.
- The strongest and most abundant type of fiber in connective tissue is **collagen** fiber.
- Elastic** fibers are long, thin, and stretchy, made of the protein elastin.
- Reticular** fibers are fine, coated collagen fibers that form sponge-like networks.
- Immature connective tissue cells that form matrix are identified by the suffix **-blast**.
- Mature connective tissue cells that maintain the matrix are identified by the suffix **-cyte**.
- Macrophages** are large immune cells in connective tissue that consume pathogens and debris.
- A genetic disorder affecting connective tissue, especially elastic fibers, is called **Marfan** Syndrome.

15 Questions

Answer Key Included

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