

Module 3: The Muscular System

Objectives:

1. Describe the types and functions of muscle tissue.
2. Explain the mechanism of muscle contraction.
3. Identify major muscle groups in the human body.

Overview:

The muscular system allows movement, stabilizes posture, generates heat, and assists in circulation and digestion.

Types of Muscle Tissue:

1. **Skeletal Muscle** – Voluntary muscles attached to bones for movement.
2. **Cardiac Muscle** – Involuntary muscle found in the heart.
3. **Smooth Muscle** – Involuntary muscles found in organs.

Muscle Contraction:

Muscle contraction occurs via the sliding filament mechanism, where actin and myosin filaments slide past each other, shortening the muscle fiber. ATP and calcium ions play a critical role in this process.

Module 4: The Nervous System

Objectives:

1. Identify the main components of the nervous system.
2. Explain the functions of neurons and neuroglia.
3. Describe how nerve impulses are transmitted.

Overview:

The nervous system controls body functions, processes sensory information, and enables responses. It is divided into:

Divisions of the Nervous System:

1. **Central Nervous System (CNS)** – Includes the brain and spinal cord.
2. **Peripheral Nervous System (PNS)** – Consists of cranial and spinal nerves.

Neurons and Nerve Impulses:

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