

Complete Study Guide for ATI TEAS

ANATOMY OF MUSCULAR SYSTEM

system that performs muscular contraction. Muscles, which are made up of bundles of fibers called myofibrils, contract and generate force. The primary job of muscles is to move the body or its parts.

There are 3 types of muscle tissue: **skeletal muscle**, **cardiac muscle**, and **smooth muscle**.

- Skeletal muscle:** These striated muscles are attached to bones by tendons and are responsible for voluntary movement. They are under conscious control.
- Cardiac muscle:** This striated muscle is found in the heart and is responsible for pumping blood. It is under involuntary control.
- Smooth muscle:** This non-striated muscle is found in the walls of internal organs and blood vessels. It is under involuntary control.



Smooth muscle: These non-striated muscles are found in the walls of internal organs and blood vessels. They are under involuntary control.



Smooth muscle fibers are spindle-shaped and lack striations. They are found in the walls of internal organs and blood vessels.

Cardiac muscle: These striated muscles are found in the heart and are responsible for pumping blood. They are under involuntary control.

Cardiovascular System

- The heart is made up of four chambers: right and left atria and ventricles.
- The heart is surrounded by a pericardial sac.
- The heart is located in the thoracic cavity.
- The heart is the central pump of the circulatory system.

Structure of the heart:

- Right Atrium:** Receives deoxygenated blood from the body.
- Right Ventricle:** Pumps deoxygenated blood to the lungs.
- Left Atrium:** Receives oxygenated blood from the lungs.
- Left Ventricle:** Pumps oxygenated blood to the body.

CARDIOVASCULAR SYSTEM

The cardiovascular system is responsible for transporting blood throughout the body. It consists of the heart, blood vessels, and blood.

Heart: The heart is the central pump of the circulatory system. It consists of four chambers: right and left atria and ventricles.

Blood Vessels: There are three types of blood vessels: arteries, veins, and capillaries.

Arteries: These vessels carry oxygenated blood away from the heart.

Veins: These vessels carry deoxygenated blood back to the heart.

Capillaries: These are the smallest blood vessels and are responsible for the exchange of oxygen and nutrients.

Blood: Blood is the fluid that carries oxygen and nutrients throughout the body.

Heart Failure: This occurs when the heart is unable to pump enough blood to meet the body's needs.

Coronary Artery Disease: This is a condition where the arteries that supply the heart with blood become narrowed or blocked.

Stroke: This occurs when the blood supply to the brain is interrupted, leading to brain damage.

Hypertension: This is a condition where the blood pressure is consistently high.

Heart Disease: This is a general term for any condition that affects the heart.

Cardiovascular Disease: This is a general term for any condition that affects the cardiovascular system.

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Components of Blood

Plasma: The liquid component of blood that carries cells and nutrients. It is made up of water, proteins, and other substances.

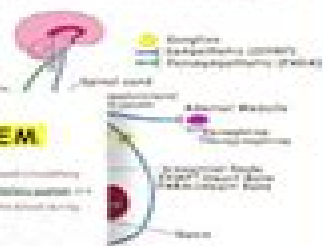
Red Blood Cells: These cells carry oxygen from the lungs to the rest of the body. They contain a protein called hemoglobin.

White Blood Cells: These cells are part of the immune system and help fight off infections. They are found in the blood and in other parts of the body.

Platelets: These small, disc-shaped cells help with blood clotting. They are found in the blood.

CARDIOVASCULAR REGULATION

- Baroreceptors:** These are sensors that detect changes in blood pressure. They are located in the carotid and aortic sinuses.
- Chemoreceptors:** These are sensors that detect changes in the levels of oxygen and carbon dioxide in the blood.
- Autonomic Nervous System:** This system controls the heart and blood vessels. It consists of the sympathetic and parasympathetic branches.
- Hormones:** These are chemical messengers that regulate blood pressure. Examples include angiotensin II and aldosterone.



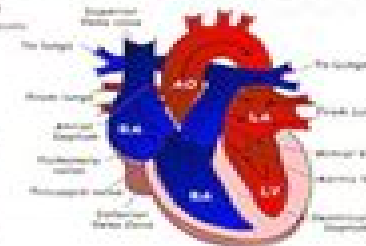
BLOOD CIRCULATION CLOSED BLOOD CIRCULATORY SYSTEM

Open Circulatory System: In this system, blood is pumped into a body cavity called a hemocoel. The blood then flows back to the heart through open channels called ostia.

Closed Circulatory System: In this system, blood is contained within blood vessels. The blood is pumped from the heart to the body and back to the heart.

Advantages of Closed Circulatory System:

- Efficient delivery of oxygen and nutrients.
- Ability to maintain high blood pressure.
- Ability to regulate blood flow to specific tissues.



Closed Circulatory System

Systemic Circulation: This is the part of the closed circulatory system that carries oxygenated blood from the heart to the rest of the body and returns deoxygenated blood to the heart.

Pulmonary Circulation: This is the part of the closed circulatory system that carries deoxygenated blood from the heart to the lungs and returns oxygenated blood to the heart.



Arteries: These vessels carry oxygenated blood away from the heart. They have thick, elastic walls.

Veins: These vessels carry deoxygenated blood back to the heart. They have thinner walls and contain valves to prevent backflow.

Capillaries: These are the smallest blood vessels and are responsible for the exchange of oxygen and nutrients.

Heart Failure: This occurs when the heart is unable to pump enough blood to meet the body's needs. It can be caused by various factors, including coronary artery disease and hypertension.

Coronary Artery Disease: This is a condition where the arteries that supply the heart with blood become narrowed or blocked. It is the leading cause of heart disease and death.

Stroke: This occurs when the blood supply to the brain is interrupted, leading to brain damage. It can be caused by a blood clot or a hemorrhage.

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Liefer Study Guide Book Review: Unveiling the Magic of Language

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