

Physiology Flashcards PDF

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What is the primary function of the respiratory system?

The primary function of the respiratory system is to facilitate the exchange of oxygen and carbon dioxide between the body and the environment.

What is homeostasis?

Homeostasis is the process by which living organisms regulate their internal environment to maintain stable, constant conditions.

What role do enzymes play in physiological processes?

Enzymes act as catalysts in physiological processes, speeding up chemical reactions without being consumed in the process.

What is the function of the circulatory system?

The circulatory system is responsible for transporting blood, nutrients, gases, and waste products throughout the body.

What is the significance of the blood-brain barrier?

The blood-brain barrier protects the brain from harmful substances in the bloodstream while allowing essential nutrients to pass through.

How do hormones affect physiological functions?

Hormones are chemical messengers that regulate various physiological functions by binding to specific receptors on target cells.

What is the role of the kidneys in the body?

The kidneys filter blood to remove waste products and excess substances, regulating fluid balance and electrolyte levels.

What is the function of the nervous system?

The nervous system coordinates and controls bodily functions by transmitting signals between different parts of the body.

What is the difference between aerobic and anaerobic respiration?

Aerobic respiration requires oxygen to produce energy, while anaerobic respiration occurs without oxygen and produces less energy.

What is the role of the liver in metabolism?

The liver plays a crucial role in metabolism by processing nutrients, detoxifying harmful substances, and producing bile.