

Kaplan MCAT Flashcards PDF

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What is the primary function of the kidneys?

The primary function of the kidneys is to filter blood, remove waste, and regulate fluid and electrolyte balance.

What is the role of the liver in metabolism?

The liver plays a crucial role in metabolism by processing nutrients from the digestive system, detoxifying harmful substances, and producing bile for digestion.

What is the function of hemoglobin in the blood?

Hemoglobin's function in the blood is to transport oxygen from the lungs to the body's tissues and return carbon dioxide from the tissues back to the lungs.

What is the significance of the blood-brain barrier?

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

What are the main components of the cell membrane?

The main components of the cell membrane are phospholipids, cholesterol, and proteins.

What is the process of photosynthesis?

Photosynthesis is the process by which green plants, algae, and some bacteria convert light energy into chemical energy in the form of glucose, using carbon dioxide and water.

What is the function of enzymes in biological reactions?

Enzymes function as catalysts in biological reactions, speeding up the reaction rates without being consumed in the process.

What is the role of DNA in cells?

DNA carries the genetic information necessary for the growth, development, functioning, and reproduction of all living organisms.

What is the difference between mitosis and meiosis?

The difference between mitosis and meiosis is that mitosis results in two identical daughter cells, while meiosis results in four genetically diverse gametes.

What is the function of the immune system?

The immune system's function is to protect the body from infections and diseases by identifying and eliminating pathogens.