

## MCAT AAMC 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 tract, producing bile for fat digestion, and regulating blood sugar levels.

What is the function of hemoglobin in the blood?

Hemoglobin's primary function 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 act as catalysts in biological reactions, speeding up the reaction rate 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 main difference is that mitosis results in two identical daughter cells for growth and repair, while meiosis produces four genetically diverse gametes for sexual reproduction.

What is the function of the immune system?

The immune system protects the body against infections and diseases by identifying and destroying pathogens.