

Name _____

Kidney Power: The Role of Kidneys in the Excretory System

Multiple-Choice Questions

1. What is the primary role of the kidneys in the excretory system?
 - a) Regulating blood pressure
 - b) Producing urine
 - c) Filtering blood and removing waste products
 - d) Regulating body temperature

2. What are nephrons, and what is their function in the kidneys?
 - a) Small blood vessels
 - b) Tiny filtering units
 - c) Tubes that carry urine to the bladder
 - d) Muscular sacs that store urine

3. What happens in the glomerulus during the filtration process in the kidneys?
 - a) Water is reabsorbed into the bloodstream.
 - b) Waste products are separated from the blood.
 - c) Blood pressure forces plasma out of blood vessels.
 - d) Electrolytes are regulated.

4. How do the kidneys help regulate the body's water balance?
 - a) By producing more concentrated urine when you drink a lot of fluids
 - b) By reabsorbing excess water into the bloodstream
 - c) By increasing blood pressure when you're dehydrated
 - d) By storing excess water in the bladder

5. What role do the kidneys play in maintaining the body's pH level?
 - a) They excrete excess hydrogen ions to lower acidity.
 - b) They retain hydrogen ions to increase alkalinity.
 - c) They excrete excess carbon dioxide to lower acidity.
 - d) They retain carbon dioxide to increase alkalinity.

