

Name _____

Kidney Power: The Role of Kidneys in the Excretory System

Open-Ended Response Questions

1. Imagine a scenario where someone has kidney damage, and their kidneys are no longer functioning properly. How might this impact their overall health, and what challenges could they face in maintaining the body's internal balance and homeostasis?
2. Think about a situation where someone consumes an excessive amount of salt in their diet. How do the kidneys play a role in preventing the potential health risks associated with high salt intake, and how does this contribute to maintaining homeostasis in the body?
3. Discuss the importance of the kidneys in regulating blood pressure. What might happen if the kidneys fail to control blood pressure, and what potential health issues could arise?
4. Consider a scenario where the kidneys are unable to excrete excess hydrogen ions, leading to increased acidity in the blood. How might this affect a person's overall health, and what symptoms or complications could they experience as a result?

