

Name _____

Balancing Act: How the Excretory System Maintains Homeostasis

Open-Ended Response Questions

1. Think about a situation where someone does not drink enough water, leading to dehydration. How does the excretory system respond to this situation, and what role does it play in maintaining homeostasis in the body?
2. Imagine a scenario where a person consumes a diet high in salt. How does the excretory system help prevent the potential health risks associated with excessive salt intake, and how does this contribute to homeostasis?
3. Discuss the consequences of an imbalance in the body's pH level, either too acidic or too alkaline. How does the excretory system assist in restoring the pH balance?
4. Consider a situation where the excretory system is not functioning correctly, and waste products accumulate in the bloodstream. How might this impact the body's ability to maintain homeostasis, and what health issues could arise as a result?

