

Name \_\_\_\_\_

## The Liquid Puzzle: Composition and Formation of Urine

### Short Answer Key

1. The primary function of the glomeruli is to filter the liquid part of the blood (plasma) from its cellular components, initiating the urine formation process.
2. Reabsorption in urine formation refers to the selective reabsorption of essential substances like water, glucose, and amino acids from the nephron's tubules back into the bloodstream. This process ensures that valuable components are retained while waste products continue their journey to become urine.
3. The loop of Henle contributes to urine concentration by reabsorbing additional water from the urine. As the urine flows through the loop, more water is reabsorbed into the bloodstream, making the urine more concentrated.
4. Urine is considered a valuable diagnostic tool in healthcare because it can provide essential insights into a person's health. Changes in urine color, odor, or composition can indicate various medical conditions, including kidney problems, diabetes, infections, and dehydration. Analyzing urine helps healthcare professionals diagnose and monitor these conditions.
5. Approximately 95% of urine is composed of water.

