

## Excretory System Quiz Answer Key PDF

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**Which organ stores urine before it is excreted from the body?**

- A. Ureter
- B. Bladder ✓**
- C. Kidneys
- D. Urethra

**What is the primary function of the kidneys in the excretory system?**

- A. Produce hormones
- B. Filter blood ✓**
- C. Store urine
- D. Digest food

**Which part of the nephron is responsible for filtering blood?**

- A. Loop of Henle
- B. Glomerulus ✓**
- C. Distal tubule
- D. Collecting duct

**Which hormone increases water reabsorption in the kidneys?**

- A. Insulin
- B. Glucagon
- C. Antidiuretic hormone (ADH) ✓**
- D. Adrenaline

**Why is hydration important for the proper functioning of the excretory system?**

**Adequate hydration ensures efficient kidney function, helps prevent kidney stones, and aids in the removal of waste products from the body.**

**Which of the following can be symptoms of a urinary tract infection (UTI)? (Select all that apply)**

- A. Frequent urination ✓**
- B. Burning sensation during urination ✓**
- C. Increased thirst
- D. Cloudy urine ✓**

**Which substances are typically reabsorbed in the kidneys? (Select all that apply)**

- A. Glucose ✓**
- B. Urea
- C. Water ✓**
- D. Sodium ✓**

**What is the role of aldosterone in the excretory system?**

- A. Decrease urine production
- B. Increase sodium reabsorption ✓**
- C. Increase glucose reabsorption
- D. Decrease blood pressure

**Which organ is primarily responsible for removing carbon dioxide from the body?**

- A. Liver
- B. Kidneys
- C. Lungs ✓**
- D. Skin

**What condition is characterized by the formation of solid crystals in the kidneys?**

- A. Urinary tract infection
- B. Chronic kidney disease
- C. Kidneys stones ✓**

D. Glomerulonephritis

**Which processes occur in the renal tubules of the nephron? (Select all that apply)**

- A. Filtration
- B. Reabsorption ✓**
- C. Secretion ✓**
- D. Excretion

**Which of the following are functions of the excretory system? (Select all that apply)**

- A. Filtration of blood ✓**
- B. Regulation of blood pressure ✓**
- C. Production of red blood cells
- D. Regulation of electrolyte balance ✓**

**Explain how the kidneys contribute to maintaining acid-base balance in the body.**

**The kidneys maintain acid-base balance by excreting hydrogen ions and reabsorbing bicarbonate from urine, which helps regulate blood pH.**

**Describe the process of glomerular filtration and its importance in the excretory system.**

**Glomerular filtration is the process by which the kidneys filter blood, removing excess wastes and fluids to form urine. It is crucial for removing toxins and maintaining fluid balance.**

**What lifestyle changes can help prevent the formation of kidney stones?**

**Increasing water intake, reducing salt and protein consumption, and avoiding foods high in oxalates can help prevent kidney stones.**

**Discuss the role of hormones in regulating kidney function and fluid balance.**

**Hormones like ADH and aldosterone regulate kidney function by controlling water and sodium reabsorption, thus maintaining fluid balance and blood pressure.**

**How does chronic kidney disease affect the body's ability to maintain homeostasis?**

**Chronic kidney disease impairs the kidneys' ability to filter waste, regulate electrolytes, and maintain fluid balance, disrupting homeostasis.**

**Which organs are involved in the excretion of waste products? (Select all that apply)**

- A. Kidneys ✓**
- B. Lungs ✓**
- C. Liver ✓**
- D. Heart

**What are the roles of the nephron in the kidney? (Select all that apply)**

- A. Filtration ✓**
- B. Reabsorption ✓**
- C. Secretion ✓**
- D. Digestion

**What is the primary waste product removed by the kidneys?**

- A. Carbon dioxide
- B. Urea ✓**
- C. Oxygen
- D. Glucose