

Excretory System Quiz Questions and Answers PDF

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Which organ stores urine before it is excreteted from the body?		
UreterBladder ✓KidneysUrethra		
The bladder is the organ responsible for storing urine before it is excreteted from the body. It acts as a reservoir, allowing for the controlled release of urine during urination.		
What is the primary function of the kidneys in the excretory system?		
 ○ Produce hormones ○ Filter blood ✓ ○ Store urine ○ Digest food 		
The kidneys primarily function to filter waste products and excess substances from the blood, producing urine for excretion. They also help regulate fluid balance, electrolytes, and blood pressure.		
Which part of the nephron is responsible for filtering blood?		
Coop of Hen leGlomerulus ✓Distal tubuleCollect ing duct		
The glomerulus is the part of the nephron responsible for filtering blood. It is a network of capillaries where blood filtration occurs, allowing water, ions, and small molecules to pass into the renal tubule while retaining larger molecules and blood cells in the bloodstream.		

Which hormone increases water reabsorption in the kidneys?



_) Insulin
	Gl glucagon
	Antidiuretic hormone (ADH) ✓ Adrenaline
	The hormone that increases water reabsorption in the kidneys is antidiuretic hormone (ADH), also known as vasopressin. It acts on the kidney's collecting ducts to promote water retention, thereby concentrating urine and reducing water loss.
w	hy 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.
W	hich of the following can be symptoms of a urinary tract infection (UTI)? (Select all that apply)
	Frequent urination ✓
	Burn ing sensation during urination ✓
	Increased thirst
	Cloudy urine ✓
	Common symptoms of a urinary tract infection (UTI) include frequent urination, burning sensation during urination, cloudy or strong-smelling urine, and pelvic pain. Other symptoms may also include fever and chills, indicating a more severe infection.
W	hich substances are typically reabsorbed in the kidneys? (Select all that apply)
	Glucose ✓
] Urea
	Water ✓
	Sodium ✓
	The kidneys typically reabsorb substances such as water, glucose, amino acids, and various ions (like sodium and potassium) during the filtration process to maintain homeostasis and conserve essential



	nutrients.	
W	nat is the role of aldosterone in the excretory system?	
0	Decrease urine production Increase sodium reabsorption ✓ Increase glucose reabsorption Decrease blood pressure	
\	Aldosterone is a hormone that regulates sodium and potassium levels in the body, playing a crucial role in maintaining blood pressure and fluid balance by promoting sodium reabsorption and potassium excretion in the kidneys.	
	nich organ is primarily responsible for removing carbon dioxide from the body?	
0	Liver Kidneys Lungs ✓ Skin	
	The lungs are the primary organs responsible for the removal of carbon dioxide from the body through the process of respiration. They facilitate the exchange of gases, allowing oxygen to enter the bloodstream and carbon dioxide to be expelled.	
W	nat condition is characterized by the formation of solid crystals in the kidneys?	
	Urinary tract infection	
	Chronic kidney disease	
_	Kidneys stones ✓ Glomerulonephritis	
	The condition characterized by the formation of solid crystals in the kidneys is known as kidney stones, or nephrolithiasis. These stones can cause significant pain and complications if they obstruct the urinary tract.	
Which processes occur in the renal tubules of the nephron? (Select all that apply)		
	Filtration	
	Reabsorption ✓	
	Secretion ✓	
\Box	Excretion	



The renal tubules of the nephron are involved in several key processes including reabsorption, secretion, and excretion of substances. These processes help regulate the composition of blood and the formation of urine.

Which of the following are functions of the excretory system? (Select all that apply)		
 □ Filtration of blood ✓ □ Regulation of blood pressure ✓ □ Production of red blood cells □ Regulation of electrolyte balance ✓ 		
The excretory system is responsible for removing waste products from the body, regulating water and electrolyte balance, and maintaining acid-base homeostasis.		
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.
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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)



	Kidneys ✓ Lungs ✓ Liver ✓ Heart
	The primary organs involved in the excretion of waste products include the kidneys, liver, lungs, and skin. Each of these organs plays a crucial role in removing different types of waste from the body.
Wh	at are the roles of the nephron in the kidney? (Select all that apply)
	Filtration ✓ Reabsorption ✓ Secretion ✓ Digestion
,	The nephron is the functional unit of the kidney responsible for filtering blood, reabsorbing essential substances, and excreting waste products as urine. Its roles include filtration, reabsorption, secretion, and regulation of water and electrolyte balance.
Wh	at is the primary waste product removed by the kidneys?
\bigcirc	Carbon dioxide
\bigcirc I	Urea ✓
\bigcirc (Oxygen
\bigcirc	Glucose
	The kidneys primarily remove urea, a waste product formed from the breakdown of proteins in the body. This process is essential for maintaining the body's chemical balance and eliminating toxins.