

Urinary Anatomy Quiz Questions and Answers PDF

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What is the main function of the urinary bladder?		
 Filter blood Store urine ✓ Transport urine Reabsorb nutrients 		
The urinary bladder is a muscular sac that stores urine until it is excretively released from the body. Its main function is to collect and hold urine produced by the kidneys. What is the structural and functional unit of the kidney?		
what is the structural and functional unit of the kidney?		
○ Alvelous		
○ Nephron ✓○ Glomerulus		
○ Tubule		
The nephron is the fundamental structural and functional unit of the kidney, responsible for filtering blood and forming urine.		
What is the primary role of the urethra?		
○ Store urine		
○ Filter blood		
○ Conduct urine out of the body ✓		
Reabsorb water		
The urethra is primarily responsible for transporting urine from the bladder to the outside of the body. In males, it also serves as a conduit for semen during ejaculation.		

Which part of the nephron is responsible for filtering blood?



0	Loop of Henley Proximal tubule Glomerulus ✓ Distal tubule
	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.
Wł	nich of the following are functions of the kidneys? (Select all that apply)
	Regulate blood pressure ✓ Produce insulin Remove waste from the blood ✓ Regulate electrolyte balance ✓
	The kidneys perform several essential functions including filtering waste from the blood, regulating electrolyte balance, and maintaining fluid balance in the body.
Ex	plain the role of the kidneys in maintaining homeostasis in the body.
	The kidneys maintain homeostasis by filtering blood to remove waste products, regulating water and electrolyte balance, and controlling blood pressure through the renin-angiotensin-aldosterone system.
	nich structures are part of the nephron? (Select all that apply)
	Glomerulus ✓ Loop of Henley ✓ Alveloi Distal tubule ✓
_	The nephron is the functional unit of the kidney and includes structures such as the glomerulus,
	Bowman's capsule, proximal convoluted tubule, loop of Henley, distal convoluted tubule, and collecting



	duct.
D	escribe the process of filtration in the nephron and its significance.
	Filtration occurs in the nephron at the glomerulus, where blood pressure forces water, ions, and small solutes through the glomerular membrane into the Bowman's capsule, while larger molecules and blood cells remain in circulation.
H	ow does the hormone aldosterone affect kidney function and blood pressure?
	//
	Aldosterone affects kidney function by promoting sodium reabsorption and potassium excretion, which increases blood volume and raises blood pressure.
D	scuss how the structure of the urinary bladder supports its function.

The urinary bladder's structure, characterized by a muscular wall (detrusor muscle) and a lining of transitional epithelium, supports its function by enabling it to stretch to hold urine and contract to expel it.

Which hormone is primarily responsible for regulating water balance in the kidneys?		
 ☐ Insulin ☐ Thyroxine ☐ Antidiuretic hormone (ADH) ✓ ☐ Gl glucagon 		
The hormone primarily responsible for regulating water balance in the kidneys is antidiuretic hormone (ADH), also known as vasopressin. It helps control the amount of water reabsorbed by the kidneys, thus influencing urine concentration and volume.		
What processes are involved in urine formation? (Select all that apply)		
 □ Filtration ✓ □ Digestion □ Reabsorption ✓ □ Secretion ✓ □ Urine formation involves three main processes: filtration, reabsorption, and secretion. These processes 		
occur in the nephrons of the kidneys, where blood is filtered to form urine, reclaim essential substances, and eliminate waste. Which of the following are symptoms of a urinary tract infection (UTI)? (Select all that apply)		
☐ Frequent urination ✓		
High blood sugarBurn sensation during urination ✓		
☐ Cloudy urine ✓		
Common symptoms of a urinary tract infection (UTI) include frequent urination, a burning sensation during urination, cloudy or strong-smelling urine, and pelvic pain. Other symptoms may also include fever and chills in more severe cases.		

Outline the steps involved in diagnosing a urinary tract infection.



	1. Take a detailed patient history to identify symptoms such as frequent urination, burning sensation, and lower abdominal pain. 2. Conduct a physical examination to check for tenderness in the abdomen or back. 3. Perform a urinalysis to detect the presence of bacteria, white blood cells, and red blood cells in the urine. 4. If necessary, obtain a urine culture to identify the specific bacteria causing the infection and determine the appropriate antibiotic treatment.		
Wł	nich condition is characterized by the formation of solid deposits in the kidneys?		
0	Urinary Tract Infection Chronic Kidney Disease Kidneys Stones ✓ Glomerulonephritis		
	The condition characterized by the formation of solid deposits in the kidneys is known as kidney stones or nephrolithiasis. These deposits can cause pain and urinary issues as they form from minerals and salts in the urine.		
Which hormones influence kidney function? (Select all that apply)			
	Aldosterone ✓ Cortisol Antidiuretic hormone (ADH) ✓ Estrogen		
	Several hormones play a crucial role in regulating kidney function, including aldosterone, antidiuretic hormone (ADH), and atriopeptin. These hormones help control blood pressure, fluid balance, and electrolyte levels in the body.		

What are the potential causes and treatments for kidney stones?



	Potential causes of kidney stones include dehydration, high dietary oxalate, high salt intake, obesity, and certain medical conditions like hyperparathyroidism. Treatments may involve increasing fluid intake, dietary modifications, medications to manage pain or prevent stone formation, and procedures like lithotripsy or surgery for larger stones.
w	hich organ is primarily responsible for filtering blood in the urinary system?
0	Ureter Bladder Kidneys ✓ Urethra
	The kidneys are the primary organs responsible for filtering blood in the urinary system, removing waste and excess substances to form urine.
W	here are the kidneys located in the body?
0	In the thoracic cavity Retroperitoneally ✓ In the cranio cavity In the abdominal cavity
	The kidneys are located in the lower back, on either side of the spine, just above the waist. They are positioned retroperitoneally, meaning they are behind the peritoneum, the lining of the abdominal cavity.
W	hich diagnostic tools are used to assess urinary system health? (Select all that apply)
	Urinalysis ✓ MRI Blood tests ✓ X-ray ✓
	Diagnostic tools used to assess urinary system health include urinalysis, ultrasound, CT scans, and cystoscopy. These tools help in evaluating kidney function, detecting abnormalities, and diagnosing



urinary tract conditions.