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ARAMBH SERIES

SUBJECT

**HUMAN ANATOMY
& PHYSIOLOGY**

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10:30 AM**



40 QUESTIONS WITH DETAILED EXPLANATION

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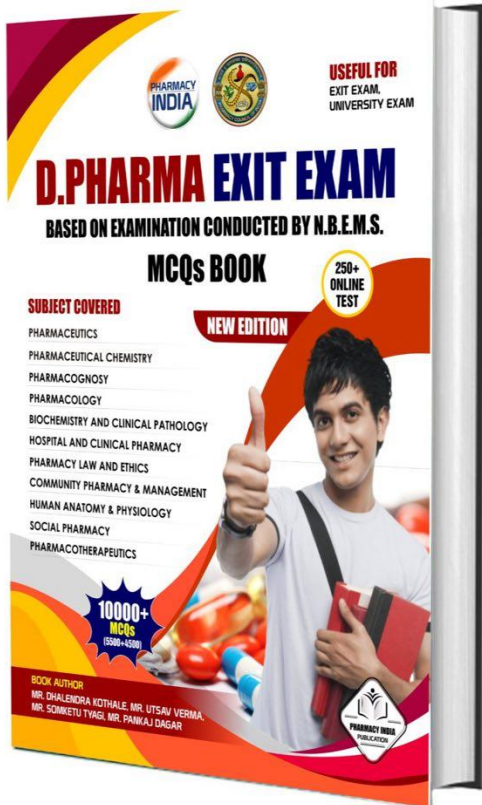
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1. Which of the following organs is primarily responsible for filtering blood to form urine?

- A) Bladder
- B) Urethra
- C) Kidneys
- D) Ureters



1. Which of the following organs is primarily responsible for filtering blood to form urine?

- A) Bladder
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2. What is the functional unit of the kidney called?

- A) Nephron
- B) Glomerulus
- C) Renal pelvis
- D) Ureter





2. What is the functional unit of the kidney called?

- A) Nephron**
- B) Glomerulus
- C) Renal pelvis
- D) Ureter



3. The portion of the nephron that filters blood is known as the:

- A) Loop of Henle
- B) Proximal convoluted tubule
- C) Glomerulus
- D) Distal convoluted tubule



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4. The bladder is lined with which type of epithelial tissue?

- A) Simple squamous
- B) Stratified squamous
- C) Transitional epithelium
- D) Cuboidal epithelium





4. The bladder is lined with which type of epithelial tissue?

- A) Simple squamous
- B) Stratified squamous
- C) Transitional epithelium**
- D) Cuboidal epithelium



5. Which hormone regulates water balance in the body and affects the kidneys?

- A) Insulin
- B) Aldosterone
- C) Antidiuretic hormone (ADH)
- D) Cortisol



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6. The renal pelvis is:

- A) The outer layer of the kidney
- B) The funnel-shaped structure that collects urine
- C) The functional unit of the kidney
- D) The site of gas exchange



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- A) The outer layer of the kidney
- B) The funnel-shaped structure that collects urine**
- C) The functional unit of the kidney
- D) The site of gas exchange



7. What structure is responsible for the reabsorption of water and solutes in the nephron?

- A) Bowman's capsule
- B) Loop of Henle
- C) Collecting duct
- D) Proximal convoluted tubule



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- B) Loop of Henle
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8. The smooth muscle layer of the bladder is known as the:

- A) Detrusor muscle
- B) Urethral sphincter
- C) Renal fascia
- D) Peritoneum



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- A) Detrusor muscle**
- B) Urethral sphincter
- C) Renal fascia
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9. Which part of the nephron is primarily involved in concentrating urine?

- A) Proximal convoluted tubule
- B) Loop of Henle
- C) Glomerulus
- D) Collecting duct



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A) Proximal convoluted tubule

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10. The renal artery supplies blood to the:

- A) Bladder
- B) Urethra
- C) Kidneys
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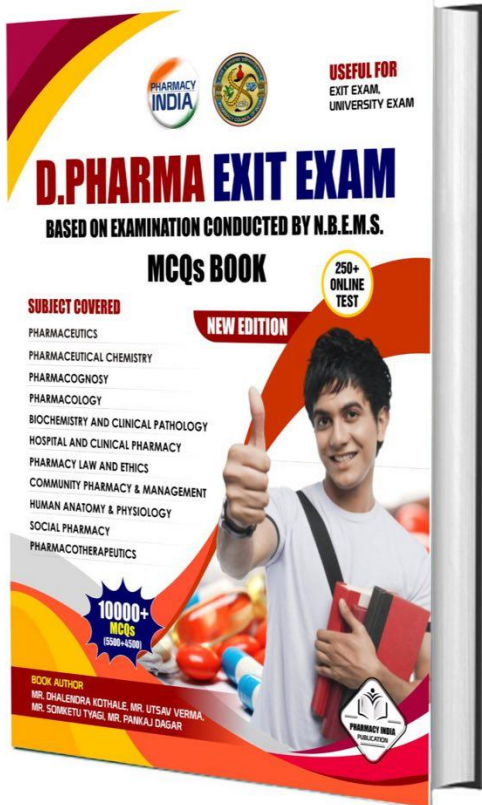
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11. What is the name of the sphincter that controls urine release from the bladder?

- A) Internal urethral sphincter
- B) External urethral sphincter
- C) Renal sphincter
- D) Detrusor sphincter





11. What is the name of the sphincter that controls urine release from the bladder?

- A) Internal urethral sphincter**
- B) External urethral sphincter
- C) Renal sphincter
- D) Detrusor sphincter



12. The kidneys are located in which region of the body?

- A) Thoracic cavity
- B) Abdominal cavity
- C) Pelvic cavity
- D) Cranial cavity



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- B) Abdominal cavity**
- C) Pelvic cavity
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13. What type of blood vessel carries blood away from the kidneys?

- A) Renal vein
- B) Renal artery
- C) Ureter
- D) Glomerular capillaries



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- B) Renal artery
- C) Ureter
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14. The process of urine formation involves three main steps: filtration, reabsorption, and:

- A) Diffusion
- B) Secretion
- C) Excretion
- D) Absorption





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15. The three main processes involved in urine formation are filtration, reabsorption, and:

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- B) Secretion
- C) Absorption
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- A) Excretion
- B) Secretion**
- C) Absorption
- D) Diffusion





16. What is the primary substance filtered out of the blood at the glomerulus?

- A) Proteins
- B) Urea
- C) Water
- D) Red blood cells





16. What is the primary substance filtered out of the blood at the glomerulus?

A) Proteins

B) Urea

C) Water

D) Red blood cells





17. What percentage of the filtered water is typically reabsorbed in the nephron?

- A) 20%
- B) 50%
- C) 70%
- D) 99%





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A) 20%

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18. During secretion, which substances are typically added to the tubular fluid?

- A) Water and electrolytes
- B) Urea and creatinine
- C) Glucose and amino acids
- D) All of the above





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- A) Water and electrolytes
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19. What is the main purpose of the renal corpuscle in urine formation?

- A) Reabsorption of nutrients
- B) Filtration of blood
- C) Secretion of waste
- D) Regulation of blood pressure



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- A) Reabsorption of nutrients
- B) Filtration of blood**
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- D) Regulation of blood pressure





20. Which part of the nephron is primarily involved in fine-tuning the composition of urine?

- A) Glomerulus
- B) Proximal convoluted tubule
- C) Distal convoluted tubule
- D) Collecting duct





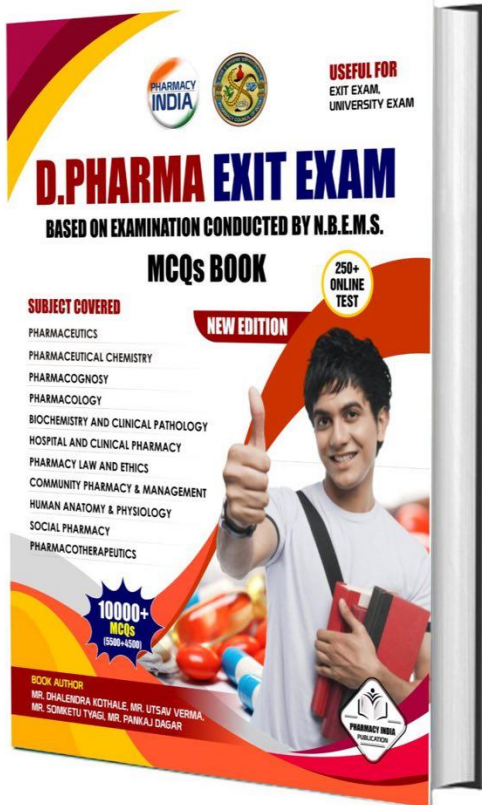
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21. Which of the following substances is NOT normally found in urine?

- A) Urea
- B) Glucose
- C) Creatinine
- D) Electrolytes





21. Which of the following substances is NOT normally found in urine?

A) Urea

B) Glucose

C) Creatinine

D) Electrolytes





22. What is the term for the volume of blood filtered by the kidneys per minute?

- A) Renal clearance
- B) Glomerular filtration rate (GFR)
- C) Urine output
- D) Filtration fraction





22. What is the term for the volume of blood filtered by the kidneys per minute?

A) Renal clearance

B) Glomerular filtration rate (GFR)

C) Urine output

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23. Which part of the nephron is impermeable to water under the influence of ADH?

- A) Proximal convoluted tubule
- B) Loop of Henle
- C) Distal convoluted tubule
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23. Which part of the nephron is impermeable to water under the influence of ADH?

- A) Proximal convoluted tubule
- B) Loop of Henle
- C) Distal convoluted tubule**
- D) Collecting duct



24. Which electrolyte is primarily reabsorbed in the proximal convoluted tubule?

- A) Potassium
- B) Sodium
- C) Calcium
- D) Chloride





24. Which electrolyte is primarily reabsorbed in the proximal convoluted tubule?

- A) Potassium
- B) Sodium**
- C) Calcium
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25. What is the main nitrogenous waste product in urine?

- A) Uric acid
- B) Urea
- C) Ammonia
- D) Creatinine



25. What is the main nitrogenous waste product in urine?

- A) Uric acid
- B) Urea**
- C) Ammonia
- D) Creatinine





26. Which type of muscle is primarily responsible for bladder contraction during micturition?

- A) Skeletal muscle
- B) Cardiac muscle
- C) Smooth muscle
- D) Striated muscle





26. Which type of muscle is primarily responsible for bladder contraction during micturition?

- A) Skeletal muscle
- B) Cardiac muscle
- C) Smooth muscle**
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27. The stretch receptors in the bladder send signals to the:

- A) Cerebral cortex
- B) Medulla oblongata
- C) Spinal cord
- D) Hypothalamus



27. The stretch receptors in the bladder send signals to the:

- A) Cerebral cortex
- B) Medulla oblongata
- C) Spinal cord**
- D) Hypothalamus



28. Which nerve is primarily involved in the micturition reflex?

- A) Phrenic nerve
- B) Pelvic nerve
- C) Vagus nerve
- D) Sciatic nerve



28. Which nerve is primarily involved in the micturition reflex?

- A) Phrenic nerve
- B) Pelvic nerve**
- C) Vagus nerve
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29. The internal urethral sphincter is controlled by which nervous system?

- A) Somatic nervous system
- B) Autonomic nervous system
- C) Central nervous system
- D) Peripheral nervous system



29. The internal urethral sphincter is controlled by which nervous system?

- A) Somatic nervous system
- B) Autonomic nervous system**
- C) Central nervous system
- D) Peripheral nervous system



30. Involuntary control of urination occurs through which part of the nervous system?

- A) Sympathetic nervous system
- B) Parasympathetic nervous system
- C) Central nervous system
- D) Enteric nervous system



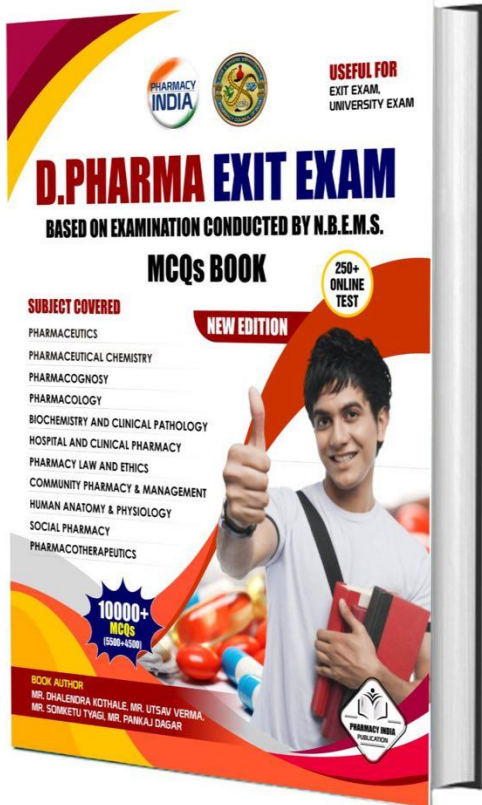
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