

Urinary System Study Questions

Dr. J. Lim

Utilize your notes and textbook to answer the following questions.

1. The kidneys are organs of excretion. T or F
2. Glucose in the urine is normal. T or F
3. When kidney function is inadequate, _____ is required to cleanse the blood.
4. State the main job of the urinary system.

5. The functional unit of the kidney is the _____.
6. Name the three nitrogenous wastes excreted from the body with a healthy urinary system.

7. There are ____ openings in the urinary bladder.
8. The kidneys are only partially protected by the _____.
9. The process of _____ aids the transport of urine down the ureter.
10. The _____ artery branches from the descending aorta to supply the kidneys with an ample supply of blood.
11. Urine is made from _____ filtered by the _____.
12. When comparing the urinary systems of males and females, the main difference is the length of the _____ which carries the urine to the outside.
13. Fill in the blanks in this pathway to urine formation and excretion:
nephron → _____ duct → calyces → renal _____ → _____
→ urinary _____ → _____ → OUT

Circle the one choice only

14. The nephron lies in which part(s) of the kidney? cortex/medulla/both
15. The type of muscle found in the walls of the ureters is smooth/skeletal muscle.
16. The type of muscle found in the walls of the urinary bladder is smooth/skeletal muscle.
17. The rectum is situated anterior/posterior to the urethra.
18. A urinary bladder infection is more common in males/females.
19. The internal sphincter is under voluntary/involuntary control.
20. The external sphincter is under voluntary/involuntary control.
21. The internal/external sphincter responds to bladder stretching.
22. The renal pyramids are in the renal medulla/cortex.
23. Urine is sterile/infectious/both when formed.
24. Kidneys excrete acidic/nitrogenous wastes in urine.
25. Red blood cells/creatinine only appear(s) in the urine during illness or injury.
26. Bile/urea is normally found in urine.

Urinary System Study Questions KEY

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Utilize your notes and textbook to answer the following questions.

1. The kidneys are organs of excretion. **True**
2. Glucose in the urine is normal. **False**
3. When kidney function is inadequate, **dialysis** is required to cleanse the blood.
4. State the main job of the urinary system.
Continuously cleanse blood and adjust its composition through the formation of urine
5. The functional unit of the kidney is the **nephron**
6. Name the three nitrogenous wastes excreted from the body with a healthy urinary system.
Urea, uric acid and creatinine
7. There are **three (3)** openings in the urinary bladder.
8. The kidneys are only partially protected by the **floating ribs**.
9. The process of **peristalsis** aids the transport of urine down the ureter.
10. The **renal** artery branches from the descending aorta to supply the kidneys with an ample supply of blood.
11. Urine is made from **blood** filtered by the **kidney/nephron**.
12. When comparing the urinary systems of males and females, the main difference is the length of the **urethra** which carries the urine to the outside.
13. Fill in the blanks in this pathway to urine formation and excretion:
nephron → **collecting** duct → calyces → renal **pelvis** → **ureter** → urinary **bladder** → **urethra** → OUT

Circle the one choice only

14. The nephron lies in which part(s) of the kidney? cortex/medulla/both
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