

STUDY GUIDE

► Testing Your Recall

Answers in Appendix B

- Micturition occurs when the _____ contracts.
 - detrusor
 - internal urethral sphincter
 - external urethral sphincter
 - muscularis of the ureter
 - all of the above
- The compact ball of capillaries in a nephron is called
 - the nephron loop.
 - the peritubular plexus.
 - the renal corpuscle.
 - the glomerulus.
 - the vasa recta.
- Which of these is the most abundant nitrogenous waste in the blood?
 - uric acid
 - urea
 - ammonia
 - creatinine
 - albumin
- Which of these lies closest to the renal cortex?
 - the parietal peritoneum
 - the renal fascia
 - the fibrous capsule
 - the perirenal fat capsule
 - the renal pelvis
- Most sodium is reabsorbed from the glomerular filtrate by
 - the vasa recta.
 - the proximal convoluted tubule.
 - the distal convoluted tubule.
 - the nephron loop.
 - the collecting duct.
- A glomerulus and glomerular capsule make up one
 - renal capsule.
 - renal corpuscle.
 - kidney lobule.
 - kidney lobe.
 - nephron.
- The kidney has more _____ than any of the other structures listed.
 - arcuate arteries
 - minor calyces
 - medullary pyramids
 - afferent arterioles
 - collecting ducts
- The renal clearance of _____ is normally zero.
 - sodium
 - potassium
 - uric acid
 - urea
 - amino acids
- Beavers have relatively little need to conserve water and could therefore be expected to have _____ than humans do.
 - fewer nephrons
 - longer nephron loops
 - shorter nephron loops
 - longer collecting ducts
 - longer convoluted tubules
- Increased ADH secretion should cause the urine to have
 - a higher specific gravity.
 - a lighter color.
 - a higher pH.
 - a lower urea concentration.
 - a lower potassium concentration.
- The _____ reflex is an autonomic reflex activated by pressure in the urinary bladder.
- _____ is the ability of a nephron to adjust its GFR independently of nervous or hormonal influences.
- The two ureters and the urethra form the boundaries of a smooth area called the _____ on the floor of the urinary bladder.
- The _____ is a group of epithelial cells of the nephron loop that monitors the composition of the tubular fluid.
- To enter the capsular space, filtrate must pass between foot processes of the _____, cells that form the visceral layer of the glomerular capsule.
- Glycosuria occurs if the rate of glomerular filtration of glucose exceeds the _____ of the proximal convoluted tubule.
- _____ is a hormone that regulates the amount of water reabsorbed by the collecting duct.
- The _____ sphincter of the male is under involuntary control and relaxes during the micturition reflex.
- Very little _____ is found in the glomerular filtrate because it is negatively charged and is repelled by the basement membrane of the glomerulus.
- Blood flows through the _____ arteries just before entering the cortical radiate arteries.