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   A. increasing the permeability of the glomerulus
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   A. urethritis
   B. uritis
   C. nephritis
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   C. ammonia
   D. creatinine

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17. The kidneys secrete the hormone erythropoietin, which:
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   B. stimulates red blood cell production
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18. Substances which increase urine production are known as:
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   C. anti-diuretics
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19. The composition of the glomerular filtrate may be best compared to the composition of:
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20. The tube that transports urine from the kidney to the urinary bladder is the:
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   B. ureter
   C. collecting duct
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21. Which of the following is NOT one of the three steps (processes) involved in urine formation?

A. glomerular filtration  
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C. countercurrent mechanism  
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A. higher in urine than in plasma  
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A. The excretory center rhythmically signals the urinary bladder to contract.  
B. Stretch sensors in the kidneys send signals to the spinal cord when it reaches a certain fullness.  
C. Sensors in the glomeruli detect increased pressure in the kidneys due to urine.  
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B. pyelonephritis  
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D. It is connected to arterioles at both ends.
E. It is surrounded by the glomerular capsule.

27. Aldosterone is a hormone secreted by the:

A. posterior lobe of the pituitary
B. anterior lobe of the pituitary
C. hypothalamus
D. cortex of the adrenal gland

28. The process of elimination of soluble metabolic wastes is called:

A. defecation
B. excretion
C. secretion
D. metabolism
E. None of the choices are correct.

29. Which of the following is the stimulus for erythropoietin release:

A. acidic pH of body fluids
B. concentration of blood
C. decreased oxygen-carrying capacity in blood
D. increased blood pH

30. Which of the following events are in the correct chronological order?

A. angiotensinogen → angiotensin, renin is released, aldosterone is released, distal convoluted tubule is stimulated to reabsorb sodium ions
B. renin is released, angiotensinogen → angiotensin, aldosterone is released, distal convoluted tubule is stimulated to reabsorb sodium ions
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   A. fats  
   B. glucose  
   C. minerals  
   D. proteins  
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32. Which organ of excretion releases water, salt, and some urea and helps cool the body?
   A. kidneys  
   B. liver  
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33. Which of these is the CORRECT sequence of blood vessels about the kidney tubule?
   A. renal artery, peritubular capillary, afferent arteriole, efferent arteriole, renal vein  
   B. efferent arteriole, glomerulus, venule, afferent arteriole, collecting duct  
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34. Defecation is a function of the:
   A. urinary system  
   B. excretory system  
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35. The renal pyramids are contained within the:
   A. renal medulla  
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36. Concentrations of metabolically important substances such as glucose are usually:
   A. high in glomerular filtrate, but only a trace is found in urine  
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A. Part of the collecting duct is permeable to urea allowing for its release into the medulla.  
B. Ions released in the loop of the nephron keep solute concentrations high.  
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D. Urea released in the loop of the nephron keep solute concentration high.  
E. Part of the collecting duct is permeable to sodium allowing for its release into the medulla.

40. Hemodialysis may be used to:

A. remove nitrogenous wastes from the blood  
B. remove toxins from the blood  
C. add bicarbonate ions to the blood  
D. All of the choices are correct.

41. Which substance is NOT normally found in urine?

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42. The glomerulus is:

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48. In the regulation of blood volume:

A. aldosterone decreases blood volume by reabsorbing potassium ions  
B. ANH decreases blood volume by increasing excretion of sodium  
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Mader - 010 Chapter... #66

Mader - 010 Chapter... #47

Mader - 010 Chapter... #22

Mader - 010 Chapter... #67
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