

Multiple Choice. Select the best answer and write the letter of your choice to the left of each number.

- 1. The organ that forms urine is the:
- a. gallbladder
- b. cystic duct
- c. bladder
- d. kidney
- 2. The tube that carries urine out of the body is the:
- a. pylorus
- b. appendix
- c. urethra
- d. peristalsis
- 3. The hormone erythropoietin stimulates production of:
- a. red blood cells
- b. platelets
- c. leukocytes
- d. saliva
- 4. Micturition is the scientific term for:
- a. urination
- b. digestion
- c. breathing
- d. retention
- 5. With reference to the urinary system, the root cyst/o means:

- a. ureter
- b. urinary bladder
- c. urinary stasis
- d. kidney
- 6. Nephritis is inflammation of the:
- a. liver
- b. intestine
- c. bladder
- d. kidney

- 7. Separation of substances by passage through a membrane is termed:
- a. centrifugation
- b. absorption
- c. deglutition
- d. dialysis
- 8. A substance that promotes urinary output is a(n):
- a. hypertensive
- b. diuretic
- c. channel blocker
- d. enzyme

9. The term perfusion means:

- a. size
- b. shape
- c. passage of fluid
- d. surrounding tissue
- e. metabolism

10. The term percutaneous means:

- a. under the skin
- b. on the surface
- c. with a catheter
- d. by chemicals
- e. through the skin

11. M.C.'s chronic glomerulonephritis means that he has had:

- a. long-term kidney stones
- b. an acute bout of kidney infection
- c. short-term bladder inflammation
- d. a long-term kidney infection
- e. dysuria for 13 years
- 12. Renal dialysis can be performed by shunting venous blood through a dialysis machine and returning the blood to the patient's arterial system. This procedure is called:

- a. hemodialysis
- b. arteriovenous transplant
- c. CAPD
- d. phlebotomy
- e. glomerular filtration rate

Use the root ren/o to write a word for the following:
1. behind (post-) the kidney
2. before or in front of (pre-) the kidney
3. between the kidneys
4. around the kidneys
Use the root nephr/o to write a word for the following:
5. study of the kidney
6. any disease of the kidney
7. poisonous or toxic to the kidney
8. softening of the kidney
9. surgical removal of the kidney
Use the appropriate root to write a word for the following:
10. inflammation of a glomerulus
11. dilatation of a renal calyx
12. plastic repair of the renal pelvis
13. radiograph of the renal pelvis
14. radiographic study (-graphy) of the kidney
15. incision of a renal calyx
16. hardening of a glomerulus
17. inflammation of the renal pelvis and kidney
Answers

- 1. postrenal
- 2. prerenal
- 3. interrenal
- 4. perirenal; circumrenalb
- 5. nephrology
- 6. nephropathy
- 7. nephrotoxic
- 8. nephromalacia
- 9. nephrectomy
- 10. glomerulitis
- 11. caliectasis; calicectasis
- 12. pyeloplasty
- 13. pyelogram

	14. renography; nephrography			
	15. calicotomy; caliotomy			
S	16. glomerulosclerosis			
	17. pyelonephritis			
	Use the root <i>ur/o</i> to write a word for the following:			
	1. study of the urinary tract			
	2. radiography of the urinary tract			
	3. a urinary calculus (stone)			
	4. presence of urinary waste products in the blood			
	The root <i>ur/o-</i> is used in the suffix <i>-uria</i> , which means "condition of urine or of			
S	urination." Use -uria to write a word for			
	the following:			
	5. lack of urine			
	6. painful or difficult urination			
	7. formation of excess (poly-) urine			
	8. presence of cells in the urine			
	9. presence of blood (hemat/o) in the urine			
	The suffix -uresis means "urination." Use -uresis to write a word for the following:			
	10. increased excretion of urine			
S	11. lack of urination			
	12. excretion of sodium (natri-) in the urine			
	13. excretion of potassium (kali-) in the urine			
	The adjective ending for the above words is <i>-uretic</i> , as in <i>diuretic</i> (pertaining to			
	diuresis) and <i>natriuretic</i> (pertaining to the excretion of sodium in the urine).			
	Use the appropriate root to write a word for the following:			
	14. surgical fixation of the urethra			
	15. surgical creation of an opening in the ureter			
	16. a ureteral calculus			
	17. endoscopic examination of the urethra			
	Use the root <i>cyst/o</i> to write a word for the following:			
	18. inflammation of the urinary bladder			
	19. surgical fixation of the urinary bladder			
-				

20. an instrument for examining the interior of the bladder				
21. incision of the bladder				
Use the root <i>vesic/o</i> to write a word for the following:				
22. above the urinary bladder23. pertaining to the urethra and bladder				
23. per tanning to the dictina and bladder				
Define the following terms:				
24. cystalgia				
25. ureterotomy				
26. transurethral				
27. uropoiesis				
Ancwore				
<u>Answers</u>				
1. urology				
2. urography				
3. urolith				
4. uremia				
5. anuria				
6. dysuria				
7. polyuria				

8. cyturia9. hematuria10. diuresis11. anuresis12. natriuresis13. kaliuresis

14. urethropexy15. ureterostomy16. ureterolith17. urethroscopy

18. cystitis

19. cystopexy20. cystoscope

- 21. cystotomy
- 22. supravesical
- 23. urethrovesical
- 24. pain in the urinary bladder
- 25. surgical incision of the ureter
- 26. through the urethra
- 27. formation of urine

MATCHING

Match the following terms and write the appropriate letter to the left of each number:

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- 2. oliguria
- 3. chromaturia
- 4. albuminuria
- **5.** pyuria
- 6. trigone
- 7. catheterization
- 8. stasis
- 9. acystia
- 10. uropenia
- 11. aldosterone
- 12. diabetes insipidus
- 13. incontinence
- 14. nocturia
- 15. creatinine
- 16. anuresis
- **17.** epispadias
- **18.** polydipsia
- 19. enuresis 20. azoturia

- a. abnormal color of urine
- **b.** pus in the urine
- c. elimination of small amounts of urine
- **d.** blood in the urine
- e. proteinuria
 - a. absence of a bladder
 - **b.** stagnation, as of urine
 - c. deficiency of urine
 - d. triangle at the base of the bladder
 - e. introduction of a tube
 - a. urination during the night
 - **b.** condition caused by lack of ADH
 - c. nitrogenous metabolic waste
 - **d.** hormone that regulates electrolytes
 - e. inability to retain urine
- a. excessive thirst
- **b.** bed-wetting
- c. presence of excess nitrogenous waste in the urine
- d. congenital misplacement of the ureteral opening

e. lack of urination

FILL IN THE BLANKS
21. A microscopic working unit of the kidney is called a(n)
22. The cluster of capillaries within the glomerular capsule is the
23. An enzyme released by the kidneys that acts to increase blood pressure
24. Micturition is the scientifi c term for
25. Laboratory study of the urine is a(n)
26. The main nitrogenous waste product in urine is
27. inability to retain urine is termed urinary
28. A midstream urine sample collected after thorough cleansing of the urethral opening is called
a(n)
29. Endoscopic examination of the urinary bladder is termed
TRUE FALCE
TRUE-FALSE
Examine the following statements. If the statement is true, write T in the firs
blank. If the statement is false, write F in the first blank and correct the
statement by replacing the underlined word in the second blank.
30. A reniform structure is shaped like the bladder .
31. Pyelitis is inflammation of the renal pelvis .
32. A nephrotropic substance acts on the kidney .
33. The outer portion of the kidney is the medulla.
34. The tube that carries urine out of the body is the <u>ureter</u> .
35. EPO stimulates the production of red blood cells .
36. A lithotomy is an incision to remove a <u>calculus</u> .
37. Kaliuresis refers to the excretion of sodium in the urine.
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DEFINITIONS
Define the following words:
38. pararenal
39. dysuria
40. nephrotoxic
41. juxtaglomerular
42. calicectomy
43. urethrostenosis

	Write a word for the following definitions:
	44. dilatation of the renal pelvis and calices
	45. softening of a kidney (nephr/o)
	46. excision of the bladder (cyst/o)
	47. any disease of the kidney (nephr/o)
	48. radiograph of the bladder (cyst/o) and urethra
	49. plastic repair of a ureter and renal pelvis
	50. infl ammation of the renal pelvis and the kidney
	51. surgical creation of an opening between a ureter and the sigmoid colon
	ELIMINATIONS
	In each of the sets below, underline the word that does not fit in with the rest
	and explain the reason for your choice:
	52. capsule — cast — pyramid — nephron — cortex
	53. nephron loop — distal convoluted tubule — glomerular capsule — calyx — proximal convoluted tubule
	54. ileal conduit — specific gravity — dialysis — cystoscopy — lithotripsy
	OPPOSITES
	Write a word that means the opposite of the following:
	55. hydration
	56. hypervolemia
	57. diuretic 58. hyponatremia
	59. uresis
	PLURALS
	Write the plural form of the following:
	67. pelvis
	68. calyx
	69. glomerulus
	WORD BUILDING
	Write a word for the following definitions.
	70. radiographic study of the urinary tract
	71. pertaining to the kidney
	72. within the kidney
	73. radiographic study of the kidney
	74. within the bladder
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	75. above the kidney
	76. study of the urinary tract
	77. between the kidneys
	78. pertaining to the bladder
	79. a urinary tract stone
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	A DDDEL//A TIONS
	ABBREVIATIONS
Ś	Write the meaning of the following abbreviations:
	80. IVP
13	81. ADH
	82. EPO
	83. IVU
	84. Na
	85. GFR
	86. UA
Š	WORD ANALYSIS
	Define the following words and give the meaning of the word parts in each. Use a
	dictionary if necessary.
	87. hemodialysis:
Ś	a. hem/o
	b. dia
	c.lysis
	88. cystometrography:
S	a. cyst/o
	b. metr/o
	c. -graphy
	89. ureteroneocystostomy:
	a. ureter/o
	b. neo
	c. cyst/o
	d. -stomy
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Answers

- 1. d
- 2. c
- **3** a
- 4. e
- **- -**
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- **7.** e
- Q h
- 9. a
- **10.** c
- 11. d
- 12. b
- 13. e
- 14. a
- 15. c
- 16. e
- .__ .
- 17. d 18. a
- 19. b
- ____
- **20.** c
- 21. nephron
- 22. glomerulus
- 23. renin
- 24. urination; voiding of urine
- 25. urinalysis
- **26.** urea
- 27. incontinence;
- 28. clean-catch specimen
- 29. cystoscopy
- 30. F; kidney
- 31. T
- 32. T
- 33. F; cortex
- 34. F; urethra

- 35. T
- 36. T
- 37. F; potassium
- 38. near the kidney
- 39. painful or difficult urination
- 40. toxic or poisonous to the kidney
- 41. near the glomerulus
- 42. surgical removal of a calyx
- 43. narrowing of a urethra
- 44. pyelocaliectasis; pyelocalicectasis
- 45. nephromalacia
- 46. cystectomy
- 47. nephropathy
- 48. cystourethrogram
- 49. ureteropyeloplasty
- 50. pyelonephritis
- 51. ureterosigmoidostomy
- 52. cast; A cast is a solid mold of a renal nephron; the others are parts of the kidney.

- 53. calyx; A *calyx* is a collecting region for urine in the kidney; the others are parts of a nephron.
- 54. specific gravity; *Specific gravity* is a measure of density; the others are treatment procedures for the urinary system.

- 55. dehydration
- 56. hypovolemia
- 57. antidiuretic
- 58. hypernatremia
- 59. anuresis
- 67. pelves
- 68. calyces
- 69. glomeruli
- 70. urography
- 71. renal
- 72. intrarenal
- 73. renography
- 74. intravesical
- 75. suprarenal
- 76. urology

77. interrenal 78. vesical 79. urolith 80. intravenous pyelography 81. antidiuretic hormone 82. erythropoietin 83. intravenous urography 84. sodium 85. glomerular fi Itration rate 86. urinalysis 87. removal of substances from the blood by passage through a semipermeable membrane a. blood b. through c. separation 88. test that measures and records bladder function a. urinary bladder b. measure c. act of recording data 89. surgical creation of a new passage between a ureter and the bladder a. ureter b. new c. bladder d. surgical creation of an opening