

Health Science Test
Westminster Invitational
11/12/05

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Answer Key

Urinary System

Section 1: Urinary System

1. It will increase GFR
2. The GFR will decrease with age.
3. Proximal tubule
loop of Henle
Distal Tubule
Collecting duct
Minor Calyx
Major Calyx
Renal Pelvis

Section 2: Urinary System

1. tubule
2. renal
3. afferent
4. glomerulus
5. glomerular capsule
6. blood plasma
7. proteins
8. loop of Henle
9. microvilli
10. reabsorption
11. glucose
12. amino acids
13. 7.35-7.45
14. nitrogenous
15. sodium
16. potassium
17. urochrome
18. antidiuretic hormone
19. collection duct
20. pelvis
21. peristalsis
22. urine
23. micturition
24. urethra

Section 3: Urinary System

1. D
2. D
3. I
4. D
5. I
6. I
7. A
8. B
9. A
10. A
11. B

Section 4: Urinary System

1. cortex
2. medulla
3. pelvis
4. ureter

Endocrine System

Section 1: Endocrine System

1. i. released from the hypothalamus
2. k. released from the parathyroid
3. m. released from the adrenal cortex
4. j. released from the testes
5. e. released from the anterior pituitary
6. g. released from the anterior pituitary
7. f. released from the pineal body
8. l. released from the adrenal medulla

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9. a. released from the posterior pituitary
10. b. released from the hypothalamus
11. c. released from the hypothalamus
12. h. released from the posterior pituitary
13. d. released from the anterior pituitary
14. p. released from the pancreas
15. q. released from the ovaries
16. n. released from the adrenal cortex
17. o. released from the pancreas

Section 2: Endocrine System

1. Pineal Gland
2. Pituitary Gland
3. Parathyroid Gland
4. Thymus Gland
5. Adrenal Gland
6. Pancreas
7. Ovaries
8. Testicles
9. Thyroid Gland

Section 3: Endocrine System

1. Estrogens/testosterone
2. PTH
3. ADH
4. Thyroxine
5. Thyroxine
6. Insulin
7. Growth Hormone
8. Estrogens/progesterone
9. Thyroxine

Section 4: Endocrine System

1. Growth hormone
2. Thyroxine
3. PTH
4. glucocorticoids
5. growth hormone
6. androgens

Nervous System

Section 1: Nervous System

1. Dendrite
2. Nucleus
3. Cell body
4. Axon
5. Schwann cell
6. Myelin sheath
7. Node of Ranvier
8. Motor end plate
9. Muscle
10. D
11. B
12. A
13. C
14. A
15. B
16. B
17. A
18. B
19. A
20. B
21. B
22. A
23. All neurons have only 1 axon
24. They secrete cerebrospinal fluid
25. ANS or Autonomic Nervous System
26. 1. Axon must be covered with Schwann cells
2. Axon must be reasonable well-aligned with its severed end
27. CNS axons cannot regenerate when severed.

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- 28. Sodium ions are rushing into the cell
- 29. Nothing is happening to the potassium ions
- 30. Divergent circuit
- 31. 1. Stimulus must be subthreshold
2. Axon might be in the absolute refractory period
- 32. This is called salutatory conduction
- 33. It is faster than continuous conduction
- 34. No

Section 2: Nervous System

- 1. i
- 2. d
- 3. h
- 4. e
- 5. b
- 6. c
- 7. l
- 8. g
- 9. j
- 10. k
- 11. f
- 12. a

We wish to extend our appreciation to Pam Greene for submitting this exam for publication on the Wright Center at Tufts University web site.

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