Date: _____ Grade: _____

SECTION QUIZ 1-1



Remember:
Score an average of 85% or higher on all three quizzes, and you may be exempt from the chapter test!



Congratulations! You have completed this section!
Answer the following questions to test your understanding of the material. When you are finished, hand in your quiz to your teacher. Each answer is worth 2 points.

Multiple choice: Choose the correct answer.

1. _____ was a Flemish physician in the 1500's who used human cadavers in his study of anatomy.
   (a) Herophilus (c) Bernard
   (b) Galen (d) Vesalius

2. The human body consists of an estimated 30 to 100 _____ cells, depending on the size of the individual, and _____ organ systems.
   (a) thousand; 12 (c) billion; 10
   (b) million; 13 (d) trillion; 11

3. Which of the following is the correct sequence of the levels of organization from least to most complex? _____
   (a) cell, tissue, organ, system (c) cell, tissue, system, organ
   (b) tissue, cell, system, organ (d) tissue, system, organ, cell

4. Which of the following systems is responsible for maintaining communication within the body? _____
   (a) integumentary, nervous (c) skeletal, nervous
   (b) excretory, nervous (c) endocrine, nervous

5. _____ would most likely be released after a large meal, while _____would most likely be released during a period of fasting.
   (a) insulin; glucagon (c) glucagon; insulin
   (b) insulin; glucose (d) glucagon; glycogen

6. Thoughts trigger _____ that produce _____ that have electrical and chemical impact on the body.
   (a) hormones; impulses (b) emotions; hormones (c) emotions; impulses

7. Which of the following is true of both hormones and nerves? _____
   (a) They produce very accurate and long lasting effects.
   (b) They operate differently as children grow into adults.
   (c) They affect more than one organ.
   (d) They exert control over bodily activities.

8. During the 19th century, _____ developed a clear idea of the body's chemical balance .
   (a) Walter Canon (c) Ernest Starling (b) Neils Bohr (d) Claude Bernard

SECTION QUIZ 1-1

9. _____ was the British physiologist that discovered hormones.
   (a) Walter Canon (c) Ernest Starling
   (b) Neils Bohr (d) Claude Bernard

10. _____ coined the term "homeostasis" in 1932 in his book, *The Wisdom of the Body*.
   (a) Walter Canon (c) Ernest Starling
   (b) Neils Bohr (d) Claude Bernard

11. Which of the following glands is NOT included in the HPA Axis? _____
   (a) pineal gland (c) adrenal gland
   (b) pituitary gland (d) hypothalamus

12. Which "master gland" is regulated by the hypothalamus? _____
   (a) parathyroid (c) pituitary
   (b) pineal (d) pancreas

13. Which of the following is an effect caused by epinephrine? _____
   (a) pupil dilation (c) decreased heart rate
   (b) decreased blood pressure (d) blood shunted to GI tract

14. The pancreas is _____.
   (a) an exocrine gland (c) both an exocrine and an endocrine gland
   (b) an endocrine gland (d) neither an exocrine nor an endocrine gland

Matching:

15. _____ hypothalamus
16. _____ cell
17. _____ tissue
18. _____ organ
19. _____ organ system
20. _____ neuron
21. _____ gland
22. _____ hormone
23. _____ target cell
24. _____ homeostasis
25. _____ alpha cell
26. _____ beta cell

(a) cell that has a receptor for a particular hormone/chemical
(b) group of organs that perform closely related functions
(c) chemical that travels throughout the bloodstream and affects the behavior of other cells
(d) steady-state physiological condition of the body in which chemical conditions are being constantly balanced
(e) basic structural and functional unit of life
(f) cell that produces insulin
(g) cell that produces glucagon
(h) cell that carries impulses throughout the nervous system
(i) mass of similar cells that performs a specific function
(j) releases powerful hormones in response to your thought life
(k) organ that produces and releases chemicals
(l) group of tissues that work together to perform a specific function

SECTION QUIZ 1-1

Fill in the blank. Choose the correct word from the WORD BANK.

WORD BANK

Type I diabetes			Type II diabetes
epithelial tissue	connective tissue	nerve tissue	muscle tissue

27. _____ 90% adult onset, often linked to obesity, wounds are slow-healing.
28. _____ covers the interior and exterior body surfaces.
29. _____ provides support for the body and connects its parts.
30. _____ transmits nerve impulses throughout the body.
31. _____ connects with bones to enable the body to move.
32. _____ 10% juvenile-onset, genetically inherited, requires insulin injections.

Fill in the blank. Choose the correct word from the WORD BANK.

WORD BANK

skeletal-muscular systems	integumentary system	islets of Langerhans
digestive & respiratory systems	excretory system	endocrine system
nervous system	circulatory system	hypothalamus
thyroid gland	pituitary gland	adrenal glands

33. The _____ maintains order among body cells.
34. The _____ produces thyroxin, affects all body cells.
35. The _____ in the pancreas controls blood sugar levels.
36. The _____ regulates body temperature, hunger, sleep and most body hormones.
37. The _____ is the headquarters for the nerve and endocrine systems, coordinating their functions.
38. The _____ curve over tops of kidneys, produce cortisol and adrenaline.
39. The _____ support the body and protect its inward parts.
40. The _____ interprets and responds to stimuli.
41. The _____ provide raw materials to sustain body functions.
42. The _____ transports nutrients and oxygen-rich blood throughout the body.
43. The _____ rids the body of wastes.
44. The _____ holds the body together and protects it from

invading bacteria.

True or False: Write the correct answer.

45. _____ Cortisol suppresses inflammation and regulates conversion of carbohydrates into glucose.

46. _____ Thyroxin prevents excessive loss of water through the kidneys and maintains the balance between sodium and potassium in the blood.

47. _____ Aldosterone increases the metabolic rate of nearly all the cells of the body and increases the rate of cell growth.

Complete the Life Principles:

48. *"Take care of your _____ and your actions will take care of themselves."*

49. *"A wise man will hear and will increase _____; and a man of understanding shall attain unto wise counsels."*

50. *"If there were an eleventh commandment, it would be 'Thou shalt have _____!'"*