ACTIVITY ANSWER KEY

Chapter 1, Section 2

Check your answers from the Answer Key. Answers separated by commas may be in any order. Answers separated by semicolons must be in stated order. Correct all errors, then complete your next goal.



Lesson 6: *The Human Body:* *The Nervous System—Introduction*

1. (c) neuron
2. (d) impulse
3. _b_ cell body
4. _c_ dendrite
5. _a_ axon
6. (b) False
7. nerves
8. (c) negatively; positively
9. resting potential
10. (a) positive
11. (a) True
12. (c) Schwann cells
13. myelin sheath
14. (b) False
15. (a) faster
16. synapse
17. _X_ Each neuron is in some way connected to thousands of other neurons.
    _X_ Neuron links can result in multiplied millions of linking pathways.
    _X_ The way a person thinks can impact the quantity of linkages.
    _X_ Positive thoughts engender extensive dendrite branching and better health.
    ____ Negative thoughts have little bearing on dendrite branching and status of health.
    _X_ Most illnesses are attributable to toxic thought patterns and emotions.
18. (d) all of these
19. (neuron) cell body
20. nucleus
21. myelin sheath
22. axon
23. nodes
24. dendrites
25. "*We are fearfully and wonderfully made.*"



Lesson 7: *The Human Body:* *The Nervous System—Organization*

1. (a) True
2. (b) plasticity
3. (d) glial cell
4. (d) 10^{16}
5. central nervous system, peripheral nervous system
6. brain, spinal cord
7. (d) guarded by the peripheral nervous system
8. (a) True
9. (b) sense organs; central nervous system
10. peripheral; central nervous system
11. (a) Central
    (b) Peripheral
    (c) Motor
    (d) Sensory
    (e) Somatic
    (f) Autonomic
    (g) Sensory
    (h) Sympathetic
    (i) Parasympathetic
12. (c) somatic nervous system
13. (d) autonomic nervous system
14. (d) autonomic nervous system

15. sympathetic, parasympathic
16. somatic
17. autonomic
18. autonomic
19. autonomic
20. somatic
21. "*The greatest engineering is the engineering of men.*"



Lesson 8: *The Human Body:*
The Nervous System—The Brain

1. (a) brain
2. (c) 3
3. (b) 25
4. (b) False
5. complex; universe
6. Who am I, Where did I come from, Why am I here, Where am I going
7. (b) False
8. (b) False
9. (d) the walnut and the human brain show similar surface design
10. _e_ cerebrum
11. _h_ corpus callosum
12. _i_ hippocampus
13. _b_ cerebral cortex
14. _a_ cerebellum
15. _g_ brainstem
16. _d_ medulla oblongata
17. _f_ pons
18. _c_ thalamus
19. cerebrum
20. left hemisphere
21. right hemisphere
22. cerebral cortex
23. cerebellum
24. brainstem
25. thalamus
26. brainstem
27. (c) speaking
28. (a) cerebrum
29. Frontal lobe
30. cerebrum
31. Parietal lobe
32. Occipital lobe
33. Cerebellum
34. Brainstem
35. Temporal lobe
36. "*Do not go where the path may lead; go instead where there is no path and leave a trail.*"



Lesson 9: The Human Body:
The Nervous System—The Eyes

1. vision, hearing, smell, taste, touch
2. (d) 80
3. light
4. (a) black; white
5. _c_ cornea
6. _f_ iris
7. _a_ pupil
8. _b_ lens
9. _d_ vitreous humor
10. _g_ rods
11. _e_ cones
12. (c) optic nerve
13. blind spot
14. rods, cones
15. yellow spot; cones
16. _X_ compares to film...
    _X_ contains 100,000,000...
    _X_ thinner than plastic wrap
    ____ compares to sophisticated computers
    _X_ can house 200,000...
17. (a) True
18. ophthalmologists
19. (a) True
20. (c) absurd in the highest degree
21. retina
22. yellow spot
23. blind spot
24. optic nerve
25. vitreous humor
26. cornea
27. lens

28. pupil
29. iris
30. "*Be careful what you see, for the object of your eye becomes a part of thee.*"

1. (b) False



Lesson 10: The Human Body:
The Nervous System—The Senses

2. (b) slow
3. decibels
4. 85-110
5. 115
6. (a) True
7. (a) auditory canal
8. eardrum
9. (c) hammer, anvil, stirrup
10. (b) fibula
11. (c) oval window
12. cochlea
13. (a) auditory nerve
14. (c) semicircular canals
15. calcium carbonate
16. (b) semicircular canal
17. (a) auditory canal
    (b) auricle
    (c) stapes
    (d) incus
    (e) malleus
    (f) semicircular canals
    (g) oval window
    (h) auditory nerve
    (i) cochlea
    (j) inner ear
    (k) tympanum
    (l) middle ear
18. (b) False
19. receptors
20. olfactory
21. (b) spicy
22. skin
23. (a) nose
24. pain
25. pressure
26. Hansen's disease; pain
27. *"The quality of our human experience is in large measure determined by our senses."*

Ask for your QUIZ over Section 2.
Reminder: Students who score 85% or higher on the three section quizzes may be exempt from the chapter test!