ACTIVITY ANSWER KEY

Chapter 1, Section 3

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 11: *The Human Body:* *The Integumentary System*

1. (b) eyes
2. elastic (or flexible), washable, nearly watertight
3. (wording may vary) It is second only to the brain in complexity.
4. (a) True
5. 6,000
6. (c) keratin
7. melanocytes
8. (a) melanin
9. (b) False
10. dermis
11. constrict
12. (b) maintaining homeostasis
13. (c) nervous
14. (c) oil
15. (b) False
16. (a) protection
17. (a) hair shaft
    (b) sweat glands
    (c) epidermis
    (d) dermis
    (e) sweat glands
    (f) fatty layer
    (g) hair follicle
18. _X_ (a) muscular system
    _X_ (b) integumentary system
    ___ (c) skeletal system
    _X_ (d) circulatory system
    _X_ (e) nervous system
    ___ (f) reproductive system
19. (a) sebaceous
20. "*Physical beauty is only skin deep; beauty of character is more than that which meets the eye.*"



Lesson 12: The Human Body: *The Skeletal System—Part I*

1. 80
2. skull, ribs, sternum, vertebrae
3. 126; shoulder blades, pelvic bones
4. (d) 206
5. (a) True
6. (c) hyoid bone
7. (d) all of these
8. (c) blood
9. (c) calcium
10. (a) True
11. (b) levers
12. (c) femur
13. _b_ perisoteum
14. _e_ compact bone
15. _g_ Haversian canals
16. _a_ spongy bone
17. _d_ osteocytes
18. _c_ red bone marrow
19. _f_ yellow bone marrow
20. (a) red bone marrow
21. cartilage
22. growth plates
23. (b) pituitary gland
24. (a) True
25. (a) cranium
    (b) clavicle
    (c) humerus
    (d) radius
    (e) patella
    (f) tibia

(g) phalanges
(h) femur
(i) pelvic bone (pelvis)
(j) scapula

26. "*Either (a respect for truth) is rigid and dependable, like healthy bone, or it is useless*."



Lesson 13: The Human Body:
The Skeletal System—Part II

1. (b) joint
2. (b) little or no movement
3. 4
4. (c) a small amount of movement
5. spinal column (or spine, or backbone), ribs
6. cartilage
7. (a) a wide range of movement
8. hips, shoulders
9. (b) ligament
10. (a) tendon
11. (b) synovial fluid
12. (c) 26;15
13. arches; 65,000
14. (cables of a) suspension bridge
15. (a) tarsal
    (b) metatarsal
    (c) phalanges
    (d) metatarsals
    (e) tarsals
    (f) calcaneus
16. (c) 26; teeth
17. (a) True
18. (b) False
19. freely moveable
20. slightly moveable
21. freely moveable
22. fixed
23. freely moveable
24. slightly moveable
25. "*Bitterness rots the bones*."



Lesson 14: The Human Body:
The Muscular System—Part I

1. (c) 40-50
2. (b) gluteus maximus
3. stapedius
4. function, structure
5. (c) skeletal muscle tissue
6. (c) somatic
7. (a) True
8. striated
9. (a) cardiac muscle tissue
10. (b) False
11. (b) involuntary (or automatic)
12. (c) autonomic
13. (b) smooth muscle tissue
14. (b) False
15. digestion, breathing; autonomic
16. slow
17. (wording may vary) so that it can function involuntarily without conscious thought
18. (a) skeletal muscle
19. (wording may vary) Skeletal muscle tissue is controlled directly by the nervous system.
20. (a) cardiac
    (b) skeletal
    (c) smooth
21. physical therapists
22. "*The glory of young men is their strength*."



Lesson 15: The Human Body:
The Muscular System—Part II

1. (a) True
2. myofibrils
3. myosin
4. actin
5. (b) actin and myosin filamnets slide over each other, shortening the muscle
6. (b) sliding filamnet theory

7. (b) False
8. (c) ATP
9. (b) motor neurons
10. (a) acetylcholine
11. calcium
12. _2_ calcium ions flow into cytoplasm of muscle
    _1_ nerve impulse releases acetylcholine
    _3_ cross-links form
    _6_ muscle relaxes
    _5_ cross-links break down and energy is used up
    _4_ muscle contracts
13. (a) True
14. (b) False
15. (wording may vary)
    (a) Crosslinks are formed between actin and myosin filaments.
    (b) The two filaments move closer to one another.
    (c) The muscle shortens (or contracts).
16. "*Reading is to the mind what exercise is to the body*."

Ask for your QUIZ over Section 3.
Reminder: Students who score 85% or higher on the three section quizzes may be exempt from the chapter test!