ACTIVITY ANSWER KEY

Chapter 2, Section 1

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 1: The Human Body: *The Circulatory System*— *Introduction*

1. (b) blood vessels
2. (a) oxygen; carbon dioxide
3. four, four
4. (d) all of the above
5. (b) closed
6. 60,000
7. (a) artery
8. (b) smooth muscle cells
9. arterioles
10. (c) aorta
11. (b) pulmonary artery
12. (b) capillaries
13. (a) one
14. ten billion
15. (b) venules
16. (c) veins
17. valves
18. (a) True
19. (b) thinner; elastic
20. (c) 4
21. (a) upper vena cava
22. (c) lower vena cava
23. (a) pulmonary veins
24. blood pressure
25. (c) smooth muscle
26. (b) removing water from blood
27. (a) True
28. exercise, weight control, sensible diet
29. (b) False
30. (a) True
31. (a) True
32. (a) filter lymph fluid, removing any bacteria
33. infection
34. (a) capillaries
    (b) artery
    (c) arteriole
    (d) venule
    (e) vein
35. *"At the heart of every social issue is the nature of the human heart."*



Lesson 2: The Human Body: *The Circulatory System*— *The Heart*

1. (a) True
2. capillaries
3. (a) 4/1
4. (b) False
5. (c) atrium
6. (a) ventricle
7. (b) septum
8. (b) myocardium
9. (b) heart and lungs
10. (c) carbon dioxide; oxygen
11. rich; poor
12. (a) oxygen; carbon dioxide
13. fist
14. receiving
15. pumping
16. (d) tricuspid valve
17. (b) pulmonary artery
18. (b) superior vena cava, inferior vena cava, pulmonary veins
19. (a) from atrium to ventricle
20. (c) pulmonary vein

21. (b) aortic valve
22. (a) superior vena cava, right atrium, right ventricle, pulmonary artery, lung, pulmonary vein, left atrium, left ventricle, aorta
23. (b) False
24. pacemaker
25. (b) medulla oblongata
26. (b) False
27. *"Keep your heart with all diligence, for out of it are the issues of life."*



Lesson 3: The Human Body:
The Circulatory System—
The Blood

1. _b_ red blood cells
2. _d_ white blood cells
3. _a_ platelets
4. _c_ plasma
5. (c) 45%
6. (a) water
7. (b) albumins
8. (a) globulins
9. (c) fibrinogens
10. (b) erythrocyte
11. hemoglobin
12. (c) bone marrow
13. (b) False
14. (a) biconcave
15. (d) all of these
16. (a) True
17. (b) neutrophils
18. (d) lymphocytes
19. fibrin
20. arteriosclerosis
21. (a) heart attack
22. (b) stroke
23. *"... the life of the flesh is in the blood."*



Lesson 4: The Human Body:
The Respiratory System

1. cellular
2. organism
3. (a) oxygen; carbon dioxide
4. (wording may vary) It gets oxygen to the blood.
5. cilia
6. _c_ pharynx
7. _d_ trachea
8. _g_ diaphragm
9. _e_ larynx
10. _a_ bronchi
11. _f_ bronchioles
12. _b_ alveoli
13. (c) alveoli
14. (c) a collapsed lung
15. (b) 1/3; oxygen
16. (a) True
17. (b) passive
18. the ribs
19. (d) medulla oblongata
20. (c) pharynx
21. esophagus
22. trachea
23. larynx
24. bronchi
25. lungs
26. trachea
27. diaphragm
28. (c) trachea
29. (d) nose/mouth, pharynx, larynx, trachea, lungs
30. (a) two
31. *"... in the final analysis, our most basic common link is that we all inhabit this small planet, we all breathe the same air, we all cherish our children's futures, and we are all mortal."*



Lesson 5: The Human Body:
The Respiratory System—
Various Hazzards

1. _X_ breathing
   _X_ coughing into the air
   _X_ sneezing into the air
   _X_ nasal congestion

_X_ the sniffles (runny nose)
_X_ sharing food/drinks

2. (a) True
3. (a) True
4. (c) nose
5. _X_ lots of rest
   ___ high sugar diet
   _X_ frequent hand washing
   _X_ avoid close contact with people showing rhino symptoms
6. (a) True
7. carbon monoxide, nitrogen oxides, hydrogen cyanide, ammonia, tar, cadmium, nicotine
8. (d) all of these
9. bloodstream
10. (c) cancer-causing
11. _b_ bronchitis
    _d_ pneumonia
    _c_ emphysema
    _a_ lung cancer
12. metastasis
13. (a) most affected
14. (c) carbon monoxide
15. (a) nicotine
16. (a) True
17. respiratory therapist
18. (b) False
19. (a) an abnormal effect
20. bicarbonate
21. (a) True
22. (b) dulls
23. *"Never open the door to a little vice, lest a great one should enter too."*

Ask for your QUIZ over Section 1. **Reminder:** Students who score 85% or higher on the three section quizzes may be exempt from the chapter test!