Biology Unit E, Chapter 2 Review Answers

1. Process taking place in cells by which energy is released
2. Important substance in food that enables the body to grow and maintain homeostasis
3. The process of breaking down food into absorbable materials
4. Liquid waste from the body
5. C
6. B
7. B
8. A
9. D
10. C
11. A
12. C
13. B
14. C
15. Thoracic cavity increasing in volume
16. Energy, water, carbon dioxide
17. Mouth, esophagus, stomach, small intestine, large intestine, rectum
18. Filtering liquid waste from body
19. Air moves into the lungs through tubes that branch into smaller tubes and end in alveoli. Oxygen moves through the walls of the alveoli and is dissolved into blood. Carbon dioxide moves out of blood and into alveoli to be breathed out.
20. Oxygen and sugars combine to release energy. Respiratory system provides the oxygen needed. Digestive system provide sugars.
21. Coughing and sneezing help remove particles from the respiratory system.
22. Water is produced in respiration. When air is exhaled, the water vapor condenses on the glass surface.
23. Mechanical digestion occurs in the mouth and stomach and physically changes food. Chemical digestion breaks chemical bonds.
24. Partially digested food would go straight into the small intestine. No; the small intestine is where nutrients are absorbed.
25. Kidneys regulate water in the body. The athlete will release water through urine, seat, and water vapor in breath.
26. Nutrients are filtered back into the bloodstream.