

Answer Key

Unit 4 Animals: Structure and Function

Unit Preparation Questions (Assessing Readiness)

(Student textbook pages 396–9)

1. absorption, digestion, respiration, biosynthesis, excretion, egestion, secretion, movement, irritability, homeostasis, and reproduction
2. c
3. Students may suggest osmosis or diffusion. Some students may also suggest active transport (endocytosis, exocytosis). All of these answers are acceptable.
4. d
5. 6CO_2 , $6\text{H}_2\text{O}$
6. A is the cell membrane, which separates the inside of the cell from the environment within the body, and controls the flow of materials into and out of the cell. B is the cytoplasm, which includes the cytosol, organelles, and other life-supporting materials. C is a mitochondrion, from which energy is released from glucose to fuel cell activities.
7. c
8. a. Both processes move molecules across the cell membrane.
b. Osmosis is the process whereby water moves through the cell membrane so that the numbers of water molecules on the inside and outside of a cell are the same. Diffusion is the movement of molecules from areas where there are higher concentrations of molecules to areas where there are lower concentrations of molecules.
Sample answer:



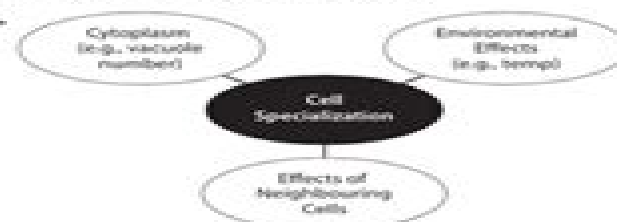
9. Sweating is an example of osmosis. The gas exchange in our lungs is an example of diffusion.
10. a. A sperm cell requires the most food energy, because the sperm tail moves back and forth like a whip.
b. Skin cells have the least number of mitochondria of the three types because they require the least amount of energy. Skin cell functions do not include movement, whereas muscle cells must provide energy for muscles to contract and relax.

11. c

12. In multicellular organisms, cell division is needed for tissue and organ growth, and to repair and replace cells in the organism.

13. Answers should include three of: blood cells, skin cells, muscle cell, nerve cell, bone cell

14.



15. a. D

b. B

c. C

d. A

16. c

17. b

18. a

19. b

20. a. and b.

Sample answer:



Prentice Hall Biology Workbook Answers Enzyme

DJ Losen



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Table of Contents Prentice Hall Biology Workbook Answers Enzyme

1. Understanding the eBook Prentice Hall Biology Workbook Answers Enzyme
 - The Rise of Digital Reading Prentice Hall Biology Workbook Answers Enzyme
 - Advantages of eBooks Over Traditional Books
2. Identifying Prentice Hall Biology Workbook Answers Enzyme
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Prentice Hall Biology Workbook Answers Enzyme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Prentice Hall Biology Workbook Answers Enzyme
 - Personalized Recommendations
 - Prentice Hall Biology Workbook Answers Enzyme User Reviews and Ratings
 - Prentice Hall Biology Workbook Answers Enzyme and Bestseller Lists
5. Accessing Prentice Hall Biology Workbook Answers Enzyme Free and Paid eBooks
 - Prentice Hall Biology Workbook Answers Enzyme Public Domain eBooks
 - Prentice Hall Biology Workbook Answers Enzyme eBook Subscription Services
 - Prentice Hall Biology Workbook Answers Enzyme Budget-Friendly Options
6. Navigating Prentice Hall Biology Workbook Answers Enzyme eBook Formats
 - ePub, PDF, MOBI, and More
 - Prentice Hall Biology Workbook Answers Enzyme Compatibility with Devices
 - Prentice Hall Biology Workbook Answers Enzyme Enhanced eBook Features
7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Prentice Hall Biology Workbook Answers Enzyme
- Highlighting and Note-Taking Prentice Hall Biology Workbook Answers Enzyme
- Interactive Elements Prentice Hall Biology Workbook Answers Enzyme
- 8. Staying Engaged with Prentice Hall Biology Workbook Answers Enzyme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Prentice Hall Biology Workbook Answers Enzyme
- 9. Balancing eBooks and Physical Books Prentice Hall Biology Workbook Answers Enzyme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Prentice Hall Biology Workbook Answers Enzyme
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Prentice Hall Biology Workbook Answers Enzyme
 - Setting Reading Goals Prentice Hall Biology Workbook Answers Enzyme
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Prentice Hall Biology Workbook Answers Enzyme
 - Fact-Checking eBook Content of Prentice Hall Biology Workbook Answers Enzyme
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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