

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

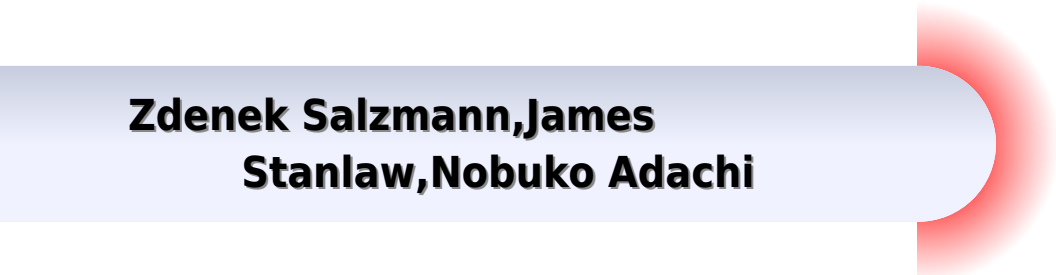
20. a. and b.

Sample answer:



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**Zdenek Salzmann,James
Stanlaw,Nobuko Adachi**



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Materials & Methods for Sociology Research James Gruber, Judith Pryor, Patricia Berge, 1980 *Forthcoming Books* Rose Arny, 2003 **Resources in Education**, 1997 *The United States Catalog* Ida M. Lynn, 1928 *Prentice Hall Science* Anthea Maton, Jill D. Wright, Jean Hopkins, Susan Johnson, David Lahart, Maryanna Quon Warner, 1994 Research in Education, 1974 *Language, Culture, and Society* Zdenek Salzmman, James Stanlaw, Nobuko Adachi, 2014-07-08 Why should we study language How do the ways in which we communicate define our identities And how is this all changing in the digital world Since 1993 many have turned to Language Culture and Society for answers to questions like those above because of its comprehensive coverage of all critical aspects of linguistic anthropology This seventh edition carries on the legacy while addressing some of the newer pressing and exciting challenges of the 21st century such as issues of language and power language ideology and linguistic diasporas Chapters on gender race and class also examine how language helps create and is created by identity New to this edition are enhanced and updated pedagogical features such as learning objectives updated resources for continued learning and the inclusion of a glossary There is also an expanded discussion of communication online and of social media outlets and how that universe is changing how we interact The discussion on race and ethnicity has also been expanded to include Latin and Asian American English vernacular

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Table of Contents Prentice Hall Biology Workbook Chapter 3answer Key

1. Understanding the eBook Prentice Hall Biology Workbook Chapter 3answer Key
 - The Rise of Digital Reading Prentice Hall Biology Workbook Chapter 3answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Prentice Hall Biology Workbook Chapter 3answer Key
 - 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 Chapter 3answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Prentice Hall Biology Workbook Chapter 3answer Key
 - Personalized Recommendations
 - Prentice Hall Biology Workbook Chapter 3answer Key User Reviews and Ratings
 - Prentice Hall Biology Workbook Chapter 3answer Key and Bestseller Lists

5. Accessing Prentice Hall Biology Workbook Chapter 3answer Key Free and Paid eBooks
 - Prentice Hall Biology Workbook Chapter 3answer Key Public Domain eBooks
 - Prentice Hall Biology Workbook Chapter 3answer Key eBook Subscription Services
 - Prentice Hall Biology Workbook Chapter 3answer Key Budget-Friendly Options
6. Navigating Prentice Hall Biology Workbook Chapter 3answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Prentice Hall Biology Workbook Chapter 3answer Key Compatibility with Devices
 - Prentice Hall Biology Workbook Chapter 3answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Prentice Hall Biology Workbook Chapter 3answer Key
 - Highlighting and Note-Taking Prentice Hall Biology Workbook Chapter 3answer Key
 - Interactive Elements Prentice Hall Biology Workbook Chapter 3answer Key
8. Staying Engaged with Prentice Hall Biology Workbook Chapter 3answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Prentice Hall Biology Workbook Chapter 3answer Key
9. Balancing eBooks and Physical Books Prentice Hall Biology Workbook Chapter 3answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Prentice Hall Biology Workbook Chapter 3answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Prentice Hall Biology Workbook Chapter 3answer Key
 - Setting Reading Goals Prentice Hall Biology Workbook Chapter 3answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Prentice Hall Biology Workbook Chapter 3answer Key
 - Fact-Checking eBook Content of Prentice Hall Biology Workbook Chapter 3answer Key
 - 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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