

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

## BIOLOGY FINAL REVIEW SHEET ANSWERS

\* Although the biology final is not considered cumulative, topics covered the second semester require the knowledge and understanding of concepts from the first semester.

\*\* This review sheet is not intended to substitute for studying. It is in no way comprehensive. The review sheet is to be used as a *supplementary resource* to help you review for your upcoming exam. It is highly recommended that you review previous quizzes, tests, labs, homework, and review sheets.

### Topics Covered:

*\*italicized topics were covered during semester I.*

*Scientific Method*

*Organic Compounds*

*Cell Structure and Function*

*Osmosis and Diffusion*

*Cell Energy*

*Photosynthesis*

*Cell Respiration*

DNA

RNA

Protein Synthesis

Mitosis

Meiosis

Genetics

Biological Change

\*On the day of the exam, students may bring one 3x5 handwritten note card to aid them in answering the questions. The student's name must be written on the note card and the note card will be collected at the end of the exam. Students will also be expected to bring a #2 pencil.

### Key Concepts in Biology:

- *What are the main functions of the cell membrane?*
- *What happens during diffusion?*
- *What is osmosis?*
- *Where do plants get the energy they need to produce food?*
- *What is ATP?*
- *What is the role of ATP in cellular activities?*
- *How is energy released from ATP?*
- *What is the overall equation for photosynthesis?*
- *What is the role of light and chlorophyll in photosynthesis?*
- *What happens in the light-dependent reactions?*
- *What is the Calvin Cycle?*
- *What is cellular respiration?*
- *What is the overall equation for cellular respiration?*
- *What happens during the process of glycolysis?*
- *What happens during the Krebs cycle?*



# 2nd Semester Biology Exam Review Answers

**University of Iowa**

The logo of the University of Iowa, featuring a red and white circular design with a stylized 'H' and 'I' inside.

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### **Table of Contents 2nd Semester Biology Exam Review Answers**

1. Understanding the eBook 2nd Semester Biology Exam Review Answers
  - The Rise of Digital Reading 2nd Semester Biology Exam Review Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying 2nd Semester Biology Exam Review Answers
  - 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 2nd Semester Biology Exam Review Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2nd Semester Biology Exam Review Answers

- Personalized Recommendations
- 2nd Semester Biology Exam Review Answers User Reviews and Ratings
- 2nd Semester Biology Exam Review Answers and Bestseller Lists
- 5. Accessing 2nd Semester Biology Exam Review Answers Free and Paid eBooks
  - 2nd Semester Biology Exam Review Answers Public Domain eBooks
  - 2nd Semester Biology Exam Review Answers eBook Subscription Services
  - 2nd Semester Biology Exam Review Answers Budget-Friendly Options
- 6. Navigating 2nd Semester Biology Exam Review Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - 2nd Semester Biology Exam Review Answers Compatibility with Devices
  - 2nd Semester Biology Exam Review Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 2nd Semester Biology Exam Review Answers
  - Highlighting and Note-Taking 2nd Semester Biology Exam Review Answers
  - Interactive Elements 2nd Semester Biology Exam Review Answers
- 8. Staying Engaged with 2nd Semester Biology Exam Review Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 2nd Semester Biology Exam Review Answers
- 9. Balancing eBooks and Physical Books 2nd Semester Biology Exam Review Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 2nd Semester Biology Exam Review Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 2nd Semester Biology Exam Review Answers
  - Setting Reading Goals 2nd Semester Biology Exam Review Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2nd Semester Biology Exam Review Answers

- Fact-Checking eBook Content of 2nd Semester Biology Exam Review Answers
- 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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