

## 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

**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?

\*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.



# 2nd Semester Biology Exam Review Answers

**University of Iowa**

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**AP® Biology Crash Course, For the New 2020 Exam, Book + Online** Michael D'Alessio, 2020-02-04 REA the test prep AP teachers recommend    **Resources in Education** ,1996    BioQUEST Library ,2002    *Paperbound Books in Print* ,1966    **The Software Encyclopedia 2001** ,2001    **University Register** Northwestern University (Evanston, Ill.),1923    *Cornell University Courses of Study* Cornell University,2007    *Margaret Morrison Carnegie College Catalogue* Margaret Morrison Carnegie College (Pittsburgh, Pa.),1934    **Introduction to Biology** Alan Axelrod,1999 A complete guide with questions answers and practice tests in the field of biology    *Current Index to Journals in Education* ,1987    *Jet Propulsion* ,1962 Beginning Oct 1959 some issues include Russian supplement    **ARS Journal** American Rocket Society,1962    **Trends in Teaching Experimentation in the Life Sciences** Nancy J. Pelaez,Stephanie M. Gardner,Trevor R. Anderson,2022-05-11 This book is a guide for educators on how to develop and evaluate evidence based strategies for teaching biological experimentation to thereby improve existing and develop new curricula It unveils the flawed assumptions made at the classroom department and institutional level about what students are learning and what help they might need to develop competence in biological experimentation Specific case studies illustrate a comprehensive list of key scientific competencies that unpack what it means to be a competent experimental life scientist It includes explicit evidence based guidelines for educators regarding the teaching learning and assessment of biological research competencies The book also provides practical teacher guides and exemplars of assignments and assessments It contains a complete analysis of the variety of tools developed thus far to assess learning in this domain This book contributes to the growth of public understanding of biological issues including scientific literacy and the crucial importance of evidence based decision making around public policy It will be beneficial to life science instructors biology education researchers and science administrators who aim to improve teaching in life science departments Chapters 6 12 14 and 22 are available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](http://springer.com)    American Journal of Physics ,1976  
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