

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?*



# Mitosis Final Exam Study Guide Biology Answers

**Sylvia S. Mader**



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