

## BIOL 1408 Unit 2 (Chapters 3 and 4) Exam Study Guide

**General Guidelines:** This study guide covers essential topics for your upcoming assessment. Focus on understanding **concepts and applications**, not just memorization. Good luck!

A) Read each question carefully; some True/False questions may be **ONLY** partially true. B) Be able to identify cell types (plant vs. animal, prokaryotic vs. eukaryotic) from images. C) Know the **structure and function** of all organelles, their representations in diagrams, and their specific locations. Be able to identify an organelle in a cell figure based on its function. D) Understand the effects of **hypertonic, hypotonic, and isotonic** solutions on cells, whether described in words or numerical concentrations (salt/sugar).

### 1. Microscopy:

- **Types of Microscopy:** Light Microscopy, Electron Microscopy (SEM, TEM) – basic principles
  - **3D Imaging:** Which type of electron microscope produces 3D images?
  - **Comparisons:** Differences in resolution, magnification, and sample preparation.
  - **Advantages of Light Microscopy:** Imaging **live cells** and dynamic processes (e.g., pond water).
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### 2. Cell Structure & Function:

- **Prokaryotic vs. Eukaryotic Cells:** Key differences.
- **Organelles:** Structures, locations, and functions of:
  - Nucleus, nucleolus, mitochondria, ribosomes, ER, Golgi apparatus, lysosomes, chloroplasts, etc.
- **Bound vs. Free Ribosomes:** What is the difference in the proteins synthesized by bound and free ribosomes?
- **DNA Locations:** Where is DNA found in animal and plant cells?
- **Organelle DNA:** Which organelles have their own DNA, and what is its shape?
- **Cell Membranes:** Structure and function (phospholipid bilayer, cholesterol, proteins, carbohydrates).
- **Plant Cell Walls:** Differences between the **cell wall** and **plasma membrane**.
- **Cell Junctions:** Tight junctions, gap junctions, and plasmodesmata.
- **Mitochondria & Chloroplasts:** Structure and membrane details. Example: How many membranes will a molecule cross when moving from the **intermembrane space** of mitochondria to the **cytoplasm**?
- **Bacteria:**
  - Basic shapes: Rod (bacillus), Spherical (coccus), Spiral (spirillum).
  - Identify bacterial shape based on its name.

### 3. Energy Conversion:

- **ATP:** Energy currency of the cell.

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**Albert A Gayle**



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*School Science and Mathematics* ,1902

International Review of the Science and Practice of Agriculture ,1917

**Scientific and Technical Aerospace Reports** ,1985

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## **Table of Contents Cms Science 2 Exam Study Guide**

1. Understanding the eBook Cms Science 2 Exam Study Guide
  - The Rise of Digital Reading Cms Science 2 Exam Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Cms Science 2 Exam Study Guide
  - 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 Cms Science 2 Exam Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Cms Science 2 Exam Study Guide
  - Personalized Recommendations
  - Cms Science 2 Exam Study Guide User Reviews and Ratings
  - Cms Science 2 Exam Study Guide and Bestseller Lists
5. Accessing Cms Science 2 Exam Study Guide Free and Paid eBooks
  - Cms Science 2 Exam Study Guide Public Domain eBooks
  - Cms Science 2 Exam Study Guide eBook Subscription Services
  - Cms Science 2 Exam Study Guide Budget-Friendly Options
6. Navigating Cms Science 2 Exam Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Cms Science 2 Exam Study Guide Compatibility with Devices
  - Cms Science 2 Exam Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Cms Science 2 Exam Study Guide
  - Highlighting and Note-Taking Cms Science 2 Exam Study Guide
  - Interactive Elements Cms Science 2 Exam Study Guide
8. Staying Engaged with Cms Science 2 Exam Study Guide

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Cms Science 2 Exam Study Guide
- 9. Balancing eBooks and Physical Books Cms Science 2 Exam Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Cms Science 2 Exam Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Cms Science 2 Exam Study Guide
  - Setting Reading Goals Cms Science 2 Exam Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Cms Science 2 Exam Study Guide
  - Fact-Checking eBook Content of Cms Science 2 Exam Study Guide
  - 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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