

Biology 1AL Midterm Study Guide

Spectroscopy

- **Absorbance:** spectrometer records the amount of light absorbed or light that passes through the solution, less light passes through a higher concentrated solution
 - Equation: $-\log(I/I_0) = CLZ = \text{Absorbance}$
 - Explanation:
 - I = intensity of light emerging from sample
 - I_0 = intensity of incident light
 - C = concentration of solution (M = moles/L)
 - L = length of light path (cm)
 - Z = molar extinction coefficient
 - $I/I_0 = \text{\% transmittance} = \text{Optical Density (O.D.)}$
 - blank: everything except key color you want to measure

Microscope

- **shorter wavelength = better resolution**
- ocular lens: 10x – total magnification equals 10x times lens
- image: inverted image – upside down and backwards
- **field of view:** smaller equals higher magnification
- **depth of field:** smaller equals higher magnification
- **ruler calibration:** less mm for higher magnification
- inverse relationship

Cells

- Domains: **Prokarya (Eubacteria, Archaea), Eukarya (Eukaryotes)**
- prototroph – can make all cellular compounds from inorganic (from minimal), photoautotrophic (sunlight to make energy), chemoautotrophic (make energy and compounds from inorganic), chemoheterotrophic (use preformed foods to make energy)
- Prokaryotes – live in hypotonic
 - plasma membrane and cell envelope
 - **cell envelope:** glycocalyx (adhesion, prevent dessication, resist phagocytosis), cell wall (passage, pressure), flagella (long, move, rotate), pili (short, more, adhesion)
 - Archaea
 - **introns, 16sRNA different, different phospholipids, different cell wall**
 - Bacteria (Eubacteria) – reproduce 10 rounds equal 1×10^3 bacteria
 - Categorizing by:
 - morphology (shape)
 - **cocci:** spherical
 - **bacilli:** rod shaped
 - **spirilli:** spiral shaped
 - cell wall composition (gram +/-)
 - **gram positive:** stain with violet, thick cell wall retains iodine violet
 - **gram negative:** stain red, thin wall with complex outer, impermeable to hydrophobic, barrier to antibiotics and enzymes
 - oxygenic photosynthesis (release O_2)
 - symbiosis (obligate parasitism)
 - Cyanobacteria: gram negative eubacter that release oxygen during photosynthesis, some do nitrogen fixation

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Mark Steyvers



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Table of Contents Biology Midterm Exam Study Guide

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

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