

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

Biology Midterm Exam Study Guide Key Answer

Lolly Ockerstrom



Biology Midterm Exam Study Guide Key Answer:

Psychology Study Guide Cornelius Rea, 2005-06-10 For every chapter the Study Guide will include a Preview and At A Glance sections both provide an overview of and objectives for the chapter Each major topic includes a progress test comprised of multiple choice matching and or true false questions The Guide also contains Graphic Organizers which encourage students to complete graphs charts and flow diagrams that ultimately provide a visual synopsis of text material End of chapter material includes Something To Think About sections which contain thought provoking questions designed to encourage critical thinking and application of the material

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Introduction to Biology Alan Axelrod, 1999 A complete guide with questions answers and practice tests in the field of biology

Taking the Anxiety Out of Taking Tests Susan Johnson, 1997 Although the thought of taking a test makes most students a little nervous this beneficial guide shows how to overcome anxiety study effectively and take tests with more confidence and success Susan Johnson applies recent breakthroughs in the treatment of full fledged anxiety disorders to test taking phobias and presents

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