

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).

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 (spiroillum).
 - 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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TExES PPR EC-12 (160) Study Guide 2025-2026 Beatrice Mendez Newman,2022-02-09 REA's TExES PPR EC 12 160 Test Prep with Online Practice Tests 6th ed Gets You Certified and in the Classroom Fully revised and updated 6th edition Our test prep is designed to help teacher candidates master the information on the TExES PPR EC 12 160 exam and get certified to teach in Texas It's perfect for college students teachers and career changing professionals who are looking to teach Early Childhood through Grade 12 in Texas Written by a leading specialist in teacher education our complete study package contains an in depth review of all four state defined domains and the 13 competencies including discussions of key educational concepts and theories as well as relevant laws A diagnostic test and three full length practice tests are offered online in a timed format with instant scoring diagnostic feedback and detailed explanations of answers Each test features every type of question subject area and skill you need to know for the exam Our online practice tests replicate the Pearson TExES question format allowing you to assess your skills and gauge your test readiness The book includes two of the three practice tests in print The online tests at REA's Study Center offer the most powerful scoring and diagnostic tools available today Automatic scoring and instant reports help you zero in on the topics and types of questions that give you trouble now so you'll succeed when it counts Every practice exam comes with detailed feedback on every question We don't just say which answers are right we explain why the other answer choices are wrong so you'll be prepared on test day This complete test prep package comes with a customized study schedule and REA's test taking strategies and tips This test prep is a must have for anyone who wants to teach EC 12 in Texas Clinical Informatics Study Guide John T. Finnell, Brian E.

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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 *Phlebotomy Exam Review, Enhanced Edition* Ruth E. McCall, 2020-06-19
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tables and figures in each chapter clarify clinical lab science concepts The Electrical Review ,1908 *Japan Science Review* ,1952 **India, a Reference Annual** ,1953* **The Urologic and Cutaneous Review** ,1930 Telegraphic Journal and Monthly Illustrated Review of Electrical Science ,1889 **Science Reporter** ,2001 **Review of Bacteriology, Protozoology and General Parasitology** ,1916 Science in the School William John Gibson,1905 **English Mechanics and the World of Science** ,1885 **Readers' Guide to Periodical Literature** ,1911

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