

# Biology Chapter 7.1 & 7.2 Study Guide

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Cell - the basic unit of structure and organization of organisms

Parts of the cell theory - All organisms are composed of one or more cells, all cells come from pre-existing cells, and that the cell is the basic unit of structure and organization of organisms

Types of microscopes

- Light microscope - Uses light and lenses, it is the simplest light microscope that uses one lens and natural light, it magnifies up to 1500 times, and the compound microscope uses multiple lenses
- Electron microscope - Uses a beam of electrons, magnifies up to 500,000 times, it was invented in the 1940s, and there are two types of electron microscopes.

Types of Electron Microscopes - The two types of electron microscopes are the scanning electron microscope and the transmission electron microscope.

Prokaryotic Cells - These cells contain a plasma membrane but does not contain membrane-bound organelles. These cells do not have a nucleus.

Eukaryotic Cells - These cells contain a plasma membrane and membrane-bound organelles

Plasma membrane - A thin flexible boundary between the cell and its environment

Permeable - Allows substances to pass through the membrane

Selectively permeable - The plasma membrane controls the movement of substances into and out of the cell

Phospholipid bilayer - Allows other molecules to "float" in the membrane

Label the parts of a phospholipid - The parts of a phospholipid are composed of a glycerol backbone, two fatty acid chains, and a phospholipid group

Fluid mosaic model - The phospholipid bilayer that allows other molecules to "float" in the membrane

Parts of a microscope and their functions - The parts of a microscope are the eyepiece, nosepiece, objective lenses, stage clips, stage, light source, arm, coarse adjustment knob, fine adjustment knob, diaphragm, and base. The eyepiece contains the ocular lens. the nosepiece holds the high and low power objective lenses that can be rotated to change magnification. The objective lenses magnification ranges to change 40x to 400x. The stage clips hold the slide in place. The stage

# Chapter 7 Study Answers

**Rachel S Tattersall**



## Chapter 7 Study Answers:

CliffsNotes HESI A2 Science Cram Plan Michael Reid,2021-04-13 A study guide for the HESI A2 science nursing school test that calendarizes a study plan for test takers depending on how much time they have left before taking the test Get a plan and make the most of the time you have left Whether you have two months one month or one week left before the exam you can turn to the experts at CliffsNotes for a trusted and achievable cram plan to ace the HESI A2 Science without ever breaking a sweat First you ll determine exactly how much time you have left to prepare for the exam Then you ll turn to the two month one month or one week cram plan for week by week and day by day schedules of the best way to focus your study according to your unique timeline Each stand alone plan includes Diagnostic tests help you pinpoint your strengths and weaknesses so you can focus your review on the topics in which you need the most help Subject areas review of material you should know for the exam biology chemistry anatomy and physiology and physics Practice exams with answers and detailed explanations *CliffsNotes ASVAB Cram Plan 2nd Edition* American BookWorks Corporation,Carolyn C. Wheater,Jane R. Burstein,2020-01-14 The perfect way to study for the ASVAB whether you have two months one month or even one week left to prepare The ASVAB Armed Services Vocational Aptitude Battery consists of ten subtests including Electronics Information Automotive and Shop Information Mechanical Comprehension and Assembling Objects that help determine what job in the U S military a successful enlistee is qualified for More than one million people per year participate in the ASVAB qualifying program Features of this plan to ace the test product include Timed boxed calendars for preparing to take the test two month study calendar one month study calendar and one week study calendar Diagnostic test that helps test takers pinpoint strengths and weaknesses so they can focus their review on topics in which they need the most help Subject reviews that succinctly cover need to know topics on the test Model practice test with answers and explanations **Test Success** Patricia M. Nugent,Barbara A. Vitale,2020-01-31 Build confidence and improve test scores Success in nursing school starts here A complete review of core concepts 900 questions Alternate format too Test taking hints and rationales for correct and incorrect answers A complete review of core concepts plus 900 questions based on the latest NCLEX test plan build confidence and improve test scores from the beginning of nursing school Master tricky alternate format questions even SATA select all that apply and develop efficient studying skills with test taking tips and rationales for correct and incorrect responses Purchase this title NEW and get 150 additional questions online plus all of the questions in the book See what students are saying about the previous edition Worth every penny I found this to be helpful from the very first chapter I was able to apply the ideas to the very next test I took in nursing school and have found it changed the way I view nursing school It breaks it down to the various types of questions asked and how to approach them It teaches you to brush aside the distracting and unnecessary aspects of the questions and teaches you to hone in on what really is essential It even helps you break down the dreaded select all that apply questions I highly recommend this book to any and all first year nursing

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