

Mastering Biology Chapter 17 Assignment No. 7

Item 1

The central paradigm of biochemistry holds that information flows from DNA to RNA to protein. The process of making protein from the mRNA is called *translation*. Translation is carried out by the ribosome, which binds to the mRNA and binds tRNA, which recognizes the codons on the mRNA and brings the appropriate amino acid with it. The ribosome forms the peptide bond between the new amino acid and the growing peptide chain.

1. The RNA that has an amino acid attached to it, and that binds to the codon on the mRNA, is called a **tRNA**.
2. Amino acids are attached to tRNA by enzymes called **aminoacyl-tRNA synthetase**.
3. The process, performed by the ribosome, of reading mRNA and synthesizing a protein is called **translation**.
4. **Initiation** of translation always happens at the start codon of the mRNA.
5. **Termination** of translation happens when the ribosome hits a stop codon on the mRNA.

The process of translation, or protein synthesis, is a crucial part of the maintenance of living organisms. Proteins are constantly in use and will break down eventually, so new ones must always be available. If protein synthesis breaks down or stops, then the organism dies.

Item 2

DNA polymerase is very accurate and rarely makes a mistake in DNA replication. Occasionally, however, an error in replication, known as a point mutation, is introduced. There are two general categories of point mutations—frameshift mutations (also called base-pair insertions or base-pair deletions) and base substitution mutations (shown in the diagram).



Base substitution mutations and Frameshift mutations

If a segment of DNA were replicated without any errors, the replicated strand would have the following sequence of nucleotides:

5' - ACTACGTGA - 3'

Mastering Biology Answers Chapter 17

Wallace



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Mastering Periodontology Viva: Chapter-Wise Questions & Answers for Exam and Chairside Dr. Manjunath S. H, 2025-11-03 The idea for this book *Mastering Periodontology Viva From Basics to Chairside* was born out of a simple yet strong observation during my teaching career I saw many students struggling during viva examinations and at the chairside despite having studied the subject in depth While standard textbooks like Carranza's *Clinical Periodontology* provide comprehensive knowledge students often find it challenging to extract and present that knowledge in a concise exam oriented manner This book has been carefully designed to bridge that gap It simplifies vast concepts into structured viva questions and answers organized chapter wise while also including quick revision tables and chairside clinical questions The aim is to make the subject easier to recall during viva voce practical exams and clinical postings I have also included chairside Q A that cover history taking diagnosis investigations surgical steps instruments sterilization patient instructions and emergency management topics that students frequently face in daily clinical practice My vision is to provide a one stop companion for undergraduates interns and even postgraduates to prepare with confidence for viva exams and to handle chairside discussions effectively I sincerely hope that this book not only helps students excel in examinations but also develops their confidence in approaching real patients with clarity and competence *Biology, Science and Life* Wallace, Tietjen, 1996 **Mastering Java through Biology** Peter Garst, 2014-07-22 **High School Biology Unlocked** The Princeton Review, 2016-11-29 UNLOCK THE SECRETS OF BIOLOGY with THE PRINCETON REVIEW High School Biology Unlocked focuses on giving you a wide range of lessons to help increase your understanding of biology With this book you'll move from foundational concepts to a look at the way biology affects your life every day End of chapter drills will help test your comprehension of each facet of biology from molecules to mammals Don't feel locked out Everything You Need to Know About Biology Complex concepts explained in straightforward ways Walk throughs of the ins and outs of key biology topics Clear goals and self assessments to help you pinpoint areas for further review Guided examples of how to solve problems for common topics Practice Your Way to Excellence 100 hands on practice questions seeded throughout the chapters and online Complete answer explanations to boost understanding Bonus online questions similar to those you'll find on the AP Biology Exam and the SAT Biology E/M Subject Test High School Biology Unlocked covers The Nature of Science Biomolecules and Processing the Genome Cells and Cellular Energy The Human Body Genetics Diseases Plants Ecology Biological Evolution and more **The World of Biology** P. William Davis, Eldra Pearl Solomon, 1986 **Structure & Function of the Body - E-Book** Kevin T. Patton, Gary A. Thibodeau, 2019-09-28 Get a solid understanding of the human body Using simple conversational language and vivid animations and illustrations Structure Function of the Body 16th Edition introduces the normal structure and function of the human body and what the body does to maintain homeostasis To help make difficult A/P concepts easy to understand this new edition features thoroughly revised content and review

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Botany James D. Mauseth, 2003 Botany An Introduction to Plant Biology Third Edition provides an updated thorough overview of the fundamentals of botany The topics and chapters are organized in a sequence that is easy to follow beginning with the most familiar structure and proceeding to the less familiar metabolism then finishing with those topics that are probably the least familiar to most beginning students genetics evolution the diversity of organisms and ecology *Master the GED: Mastering the Science Test* Peterson's, 2010-08-01 Peterson's Master the GED Mastering the Science Test offers readers a complete look at the GED Science Test Readers will learn all about the GED Science test including What's tested and what's not tested Formats used Subject areas Question types based on the four skill areas Application questions Questions based on visual depictions General test taking strategies to score high Master the GED Mastering the Science Test is part of Master the GED 2011 which offers readers 3 full length practice tests and in depth subject review for each of the GED tests Language Arts Writing Parts I and II Language Arts Reading Social Studies including Canadian history and government Science and Mathematics Parts I and II as well as top test taking tips to score high on the GED **Biology** Wallace, 1998-03-21 **AP Biology Prep Plus 2020 & 2021** Kaplan Test Prep, 2020-07-07 Kaplan's AP Biology Prep Plus 2020 2021 is revised to align with the latest exam This edition features hundreds of practice questions in the book complete explanations for every question and a concise review of high yield content to quickly build your skills and confidence Test like practice comes in 3 full length exams 16 pre chapter quizzes and 16 post chapter quizzes Customizable study plans ensure that you make the most of the study time you have We're so confident that AP Biology Prep Plus offers the guidance you need

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