

Chapter 17

Due: 11:59pm on Monday, December 14, 2020

You will receive no credit for items you complete after the assignment is due. [Grading Policy](#)

Point Mutations

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).



Part A - 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'

Sort the following replicated DNA sequences by the type of point mutation each contains (frameshift, base substitution, or neither), as compared to the correct sequence shown above.

Sort the items into the appropriate bins.

Hint 1. How to approach the problem

In order to determine the type of point mutation contained in a DNA sequence, it is helpful to write the mutated sequences below the correct sequence so you can see the differences. The table below displays examples:

Correct Sequence	ATGCAT
Substitution 1	ATC-CAT
Substitution 2	ATGC T T
Frameshift 1	ATGG-CAT
Frameshift 2	ATC-AT

Frameshift mutations will change the number of nucleotides in a sequence; base substitution mutations will change the composition of the sequence but not the number of nucleotides.

Hint 2. How many bases are in each mutated segment?

The correct DNA sequence contains nine bases. Which of the mutated sequences also contain(s) nine bases?

Select all that apply.

ANSWER:

- ☐ 5' - ACTTACGTGA - 3'
- ☐ 5' - ACTCOTGA - 3'
- ☒ 5' - ACTAAGTGA - 3'
- ☒ 5' - ACTACGTGT - 3'

ANSWER:

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Mansoor Muallim



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Mastering Biology Fred Kilgour, Peter Riley, 1999-11-11 Mastering Biology 3rd edition has been fully revised and updated to provide the information required for today's syllabuses. The book provides an interactive element where the readers can focus on the learning objectives, find them easily in each chapter, check their knowledge and understanding by answering the wide-ranging questions and revise their work using the end of chapter summaries. Mastering Biology can be a useful primer for students beginning A Level Biology after studying an integrated course at GCSE. It will also appeal to further education students.

A Guide to Teaching in the Active Learning Classroom Paul Baepler, J. D. Walker, D. Christopher Brooks, Kem Saichaie, Christina I. Petersen, 2023-07-03 While Active Learning Classrooms or ALCs offer rich new environments for learning, they present many new challenges to faculty because among other things they eliminate the room's central focal point and disrupt the conventional seating plan to which faculty and students have become accustomed. The importance of learning how to use these classrooms well and to capitalize on their special features is paramount. The potential they represent can be realized only when they facilitate improved learning outcomes and engage students in the learning process in a manner different from traditional classrooms and lecture halls. This book provides an introduction to ALCs, briefly covering their history and then synthesizing the research on these spaces to provide faculty with empirically based practical guidance on how to use these unfamiliar spaces effectively. Among the questions this book addresses are: How can instructors mitigate the apparent lack of a central focal point in the space? What types of learning activities work well in the ALCs and take advantage of the affordances of the room? How can teachers address familiar classroom management challenges in these unfamiliar spaces? If assessment and rapid feedback are critical in active learning, how do they work in a room filled with circular tables and no central focus point? How do instructors balance group learning with the needs of the larger class? How can students be held accountable when many will necessarily have their backs facing the instructor? How can instructors evaluate the effectiveness of their teaching in these spaces? This book is intended for faculty preparing to teach in or already working in this new classroom environment, for administrators planning to create ALCs or experimenting with provisionally designed rooms, and for faculty developers helping teachers transition to using these new spaces.

Mastering Medical Terminology - EPUB Sue Walker, Maryann Wood, Jenny Nicol, 2016-10-15 Fully revised and updated to reflect current medical terminology and the healthcare environment. Content written with updated medical diagnostic and therapeutic information. An extensive range of activities, exercises, and questions in each chapter to reinforce learning and apply to clinical practice. Includes eBook on VitalSource. [\(Free Sample\) Mastering VOCABULARY through Contextual Usage for GRE, MBA, SAT, Banking, SSC, Defence, Railways & CAPF Exams 3rd Edition](#) Disha Experts, 2022-03-16 Scared of cramming those miles-long word lists? Wish you had an easier, less frightening way of mastering vocabulary for GRE, IELTS, TOEFL, SAT, MBA, UPSC, Banking, SSC, Defence, Railways, CAPF competitive exams? Worry not for we

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evolution education literature across these three categories for each country or geographical region The individual chapters thus include common elements that facilitate a cross cultural meta analysis Written for a primarily academic audience this book provides a much needed common background for future evolution education research across the globe **Let's Know Biology** Mansoor Muallim, Chapter 1 The Wonder of Life Jammy Welcome Canny Today we embark on an exciting journey to explore the wonders of life a topic that has fascinated scientists and enthusiasts alike for centuries Life in all its forms is a magnificent tapestry of complexity and beauty From the tiniest microorganism to the largest living creatures the diversity and intricacy of life on Earth are truly awe inspiring Canny Thank you Jammy I m thrilled to dive into this captivating subject with you So where should we begin Jammy Let s start at the very basics Life as we know it is defined by a set of characteristics that all living organisms share These characteristics include organization energy utilization growth reproduction response to stimuli and adaptation to the environment When we observe these traits in a living being we can be certain that life is present Canny That s fascinating So how did life originate on Earth Jammy The origin of life remains a fascinating and open question in the field of biology While we don t have a definitive answer one prevailing theory suggests that life emerged from simple organic molecules in a primordial soup billions of years ago Over time these molecules combined evolved and eventually gave rise to the first living cells Canny Incredible From those early beginnings life has evolved into countless forms each adapted to its unique environment Jammy Indeed The process of evolution is a cornerstone of biology It explains how species change over time leading to the diversity of life we see today Natural selection proposed by Charles Darwin plays a crucial role in this process It allows certain traits to be favored in a population leading to the survival and reproduction of individuals with those advantageous traits Canny So it s like a constant struggle for survival and only the best adapted organisms thrive and pass on their traits Jammy Exactly Nature is a constant battlefield where organisms compete for limited resources and those with advantageous traits are more likely to succeed in passing on their genes to the next generation Canny This interplay of life and environment is truly fascinating But what about the building blocks of life What are cells and why are they so essential Jammy Cells are the fundamental units of life They are like tiny factories carrying out all the processes necessary for an organism to function From metabolism to growth from responding to stimuli to reproduction cells are the workhorses of life They come in various shapes and sizes each with specific functions that contribute to the overall health and survival of an organism Canny It s remarkable how these tiny structures are the basis of all life But what about us humans How do our bodies work Jammy Ah the human body is a masterpiece of biological engineering It s a complex network of interconnected systems that work in harmony to maintain homeostasis a state of internal balance Our circulatory system pumps blood delivering nutrients and oxygen to every cell in the body while the respiratory system facilitates the exchange of gases The nervous system allows us to think feel and react to the world around us Canny It s like we are a universe within ourselves But what happens when our bodies get sick Jammy Illnesses occur when

the delicate balance within the body is disrupted. The immune system, our body's defense mechanism, plays a crucial role in identifying and neutralizing harmful invaders like bacteria and viruses. When the immune system is compromised, we become susceptible to diseases. Canny, I'm amazed by how everything is interconnected in the web of life. It makes me appreciate the complexity and beauty of living beings even more. Jammy, That's the wonder of life. Canny, Biology takes us on an incredible journey through the diverse and interconnected facets of living organisms. From the tiniest microorganisms to the grandest ecosystems, each chapter in this book will unravel new mysteries and insights about life on Earth. Canny, I can't wait to explore further. This conversation has already left me in awe of the natural world around us. Jammy, There's so much more to discover. Canny, and I'm thrilled to guide you through this fascinating journey. Let's dive into the next chapters to uncover the marvels of biology together.

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