

DNA and RNA Study Guide – ANSWER KEY

1. What is the structure of DNA?

DNA is a double helix model, much like a zipper on a jacket.

2. What are the four nitrogenous bases in DNA?

Adenine, Guanine, Cytosine, Thymine

3. What are the four nitrogenous bases in RNA?

Adenine, Guanine, Cytosine, Uracil

4. A single strand of DNA acts as a template for:

mRNA

5. What are the three parts of a Nucleotide?

Phosphate Group, Five Carbon Sugar, Nitrogenous Base

6. In messenger RNA, each codon specifies a particular

Amino Acid

7. Before a cell divides, it must duplicate its own DNA in a process known as...

DNA Replication

8. The genetic code in DNA depends upon the order or sequence of...

Nitrogenous Bases

9. If one strand of DNA has the nitrogenous base sequence ATCGT, the sequence of bases on the COMPLEMENTARY STRAND of DNA is...

TAGCA

10. What type of RNA is responsible for bringing amino acids to the ribosome for protein synthesis?

tRNA

11. The messenger RNA will carry the DNA's instructions out of the nucleus to the:

Ribosome

12. Given the following DNA strand, what would the mRNA strand be?

T A C G T T G C A

A U G C A A C G U

Use the figure below to answer the following questions:



13. What is the figure demonstrating?

Translation

14. The process by which the genetic code of DNA is copied into a strand of RNA is...

Transcription

Biology Manipulating Dna Study Guide Answer Key

Neil A. Campbell



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Biology Joseph S. Levine, Kenneth R. Miller, 1998 **Jacaranda Nature of Biology 2 VCE Units 3 and 4, LearnON and Print** Judith Kinnear, Marjory Martin, Lucy Cassar, Elise Meehan, Ritu Tyagi, 2021-10-29 Jacaranda Nature of Biology Victoria's most trusted VCE Biology online and print resource The Jacaranda Nature of Biology series has been rewritten for the VCE Biology Study Design 2022 2026 and offers a complete and balanced learning experience that prepares students for success in their assessments by building deep understanding in both Key Knowledge and Key Science Skills Prepare students for all forms of assessment Preparing students for both the SACs and exam with access to 1000s of past VCAA exam questions now in print and learnON new teacher only and practice SACs for every Area of Study and much more Videos by experienced teachers Students can hear another voice and perspective with 100s of new videos where expert VCE Biology teachers unpack concepts VCAA exam questions and sample problems For students of all ability levels All students can understand deeply and succeed in VCE with content mapped to Key Knowledge and Key Science Skills careful scaffolding and contemporary case studies that provide a real word context eLogbook and eWorkbook Free resources to support learning eWorkbook and the increased requirement for practical investigations eLogbook which includes over 80 practical investigations with teacher advice and risk assessments For teachers learnON includes additional teacher resources such as quarantined questions and answers curriculum grids and work programs **Microbial Genetics** Mr. Rohit

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Biology Neil A. Campbell,1996 Accompanying CD ROM has interactive exercises a glossary quizzes and a test builder related to the text in the book

BIOS Instant Notes in Developmental Biology Dr Richard Twyman,2023-05-31 Coverage of the field in Instant Notes in Developmental Biology is current and focuses largely on the principles of embryonic development It is designed to provide a clear summary of the principles of developmental biology in a compact and easily manageable structure

Student Guide for Cycles of Life Gerarld L. Kellogg,2006

So Simple a Beginning Raghuveer Parthasarathy,2022-02-08 A biophysicist reveals the hidden unity behind nature s breathtaking complexity The form and function of a sprinting cheetah are quite unlike those of a rooted tree A human being is very different from a bacterium or a zebra The living world is a realm of dazzling variety yet a shared set of physical principles shapes the forms and behaviors of every creature in it So Simple a Beginning shows how the emerging new science of biophysics is transforming our understanding of life on Earth and enabling potentially lifesaving but controversial technologies such as gene editing artificial organ growth and ecosystem engineering Raghuveer Parthasarathy explains how four basic principles self assembly regulatory circuits predictable randomness and scaling shape the machinery of life on scales ranging from microscopic molecules to gigantic elephants He describes how biophysics is helping to unlock the secrets of a host of natural phenomena such as how your limbs know to form at the proper places and why humans need lungs but ants do not Parthasarathy explores how the cutting edge biotechnologies of tomorrow could enable us to alter living things in ways both subtle and profound Featuring dozens of original watercolors and drawings by the author this sweeping tour of biophysics offers astonishing new perspectives on how the wonders of life can arise from so simple a beginning

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