

Study Guide B continued**SECTION 4. TRANSCRIPTION**

1. replication (nucleus)
2. transcription (nucleus)
3. translation (cytoplasm)
4. Contains the sugar ribose
5. Has the bases A, C, G, and T
6. Typically single-stranded
7. RNA polymerase
8. A large transcription complex, including RNA polymerase and other proteins, assembles at the start of a gene and begins to unwind the DNA. Using one strand of the DNA as a template, RNA polymerase strings together a complementary strand of RNA. The RNA strand detaches from the DNA as it is transcribed, and the DNA zips back together.
9. **mRNA:** intermediate message that is translated to form a protein; **rRNA:** forms part of ribosomes; **tRNA:** brings amino acids from the cytoplasm to a ribosome to help make the growing protein
10. Both occur within the nucleus of eukaryotic cells, are catalyzed by large enzymes, involve unwinding of the DNA double helix, involve complementary base pairing of the DNA strand, and are highly regulated by the cell.
11. Replication occurs only once during each round of the cell cycle and makes a double-stranded copy of all the DNA in a cell. Transcription occurs repeatedly throughout the cell cycle to make proteins, rRNAs, and tRNAs as needed by a cell. Transcription makes a single-stranded complement of only a particular DNA sequence.
12. mRNA is a form of the DNA message that tells the cell what type of protein to make. rRNA is a key component of ribosomes. tRNA transfers, or carries, amino acids from the cytoplasm to the ribosome.
13. the process of copying a sequence of DNA to produce a complementary strand of RNA

SECTION 5. TRANSLATION

1. the process that converts an mRNA message into a polypeptide, or protein
2. sequences of three nucleotides that code for an amino acid
3. RNA
4. the order in which nucleotides are read; they are read as a series of three, nonoverlapping nucleotides
5. arginine (Arg)
6. stop codon
7. UGG
8. glycine (Gly)
9. Ribosomes, tRNA molecules
10. small
11. large
12. amino acid, anticodon

Cycle Diagram:

A. An exposed codon attracts a complementary tRNA bearing an amino acid.

B. the ribosome forms a peptide bond between the amino acids. It breaks the bond between the first amino acid and tRNA.

C. the ribosome pulls the mRNA strand the length of one codon. The first tRNA exits the ribosome, and another codon is exposed.

13. codons
14. anticodon
15. Stop codons indicate where translation is to stop. (Students may mention that methionine is also a start codon.)

SECTION 6. GENE EXPRESSION AND REGULATION

1. Regulation allows the cells to better respond to stimuli and to conserve energy and materials.
2. transcription
3. promoter
4. operon, promoter, operator, genes
5. RNA polymerase is blocked by the repressor.
6. The genes are not transcribed.

Holt Biology Answer Key Section Immune Response

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Holt Biology Answer Key Section Immune Response:

Chapter Resource 40 Body's Defenses Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004
Holt Biology Holt Rinehart & Winston, 2003-08 Holt Biology: Principles and Explorations Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1997-03 **Essentials of Biology** Holt Rinehart & Winston, 1998 **Chapter Resource 38 Circulatory/Response Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *Chapter Resource 42 Hormones/Endocrine Biology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *User's Guide/Human Biology Ieb* Holt Rinehart & Winston, 1998 **Chapter Resource 37 Introduction Body Structure Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Thnkng Skills Wkshts W/Ansky Hlt Bio** Holt Rinehart & Winston, 1998 *Chapter Resource 39 Digestive/Excretory Biology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Chapter Resource 11 Geme Technology Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Monthly Catalogue, United States Public Documents ,1982 *Chapter Resource 1 Biology and You Biology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Monthly Catalog of United States Government Publications** ,1982 *The Balance Within* Esther M. Sternberg, 2001-05-07 The Balance Within tells how researchers uncovered the elusive mind body connection and what it means for our health It provides accounts of the experiments that revealed the physical mechanisms used by the brain and immune system to communicate **Journal** ,2004 **Modern Biology, 1991** Albert Towle, 1989 **Recent Reviews** ,1986 **The Best American Magazine Writing 2021** Sid Holt, 2022-01-11 The Best American Magazine Writing 2021 presents outstanding journalism and commentary that reckon with urgent topics including COVID 19 and entrenched racial inequality In The Plague Year Lawrence Wright details how responses to the pandemic went astray New Yorker Lizzie Presser reports on The Black American Amputation Epidemic ProPublica In powerful essays the novelist Jesmyn Ward processes her grief over her husband s death against the backdrop of the pandemic and antiracist uprisings Vanity Fair and the poet Elizabeth Alexander considers The Trayvon Generation New Yorker Aymann Ismail delves into how The Store That Called the Cops on George Floyd dealt with the repercussions of the fatal call Slate Mitchell S Jackson scrutinizes the murder of Ahmaud Arbery and how running fails Black America Runner s World The anthology features remarkable reporting such as explorations of the cases of children who disappeared into the depths of the U S immigration system for years Reveal and Oakland s efforts to rethink its approach to gun violence Mother Jones It includes selections from a Public Books special issue that investigate what 2020 s overlapping crises reveal about the future of cities Excerpts from Marie Claire s guide to online privacy examine topics from algorithmic bias to cyberstalking to employees rights Aisha Sabatini Sloan s perceptive Paris Review columns explore her family history in Detroit and the toll of a brutal past and present Sam Anderson reflects on a unique pop figure in The Weirdly Enduring Appeal of Weird Al Yankovic New York Times Magazine The collection concludes with Susan Choi s striking short story The Whale Mother Harper s

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