

Chapter 12 S. R. Answer Key

Section Review 12-1

1. c 2. b 3. a 4. double helix 5. Watson, Crick
6. hydrogen bonds 7. nucleotide 8. sugar-phosphate backbone 9. The hydrogen bonds of DNA are analogous to the rungs of a twisted ladder, while the sugar-phosphate backbones of the double helix are analogous to the sides of a twisted ladder.
10. Approximately 28% of the bases would be thymine.

Section Review 12-2

1. separates 2. two; four 3. base pairing 4. original strand 5. new strand 6. original strand 7. new strand 8. By coiling and folding very tightly, the DNA of a bacterium is able to fit inside of its cell.
9. Typically, chromosomal fibers are dispersed and are not visible. During mitosis, however, they become so tightly packed together as to be visible under a light microscope.

Section Review 12-3

1. messenger RNA, transfer RNA, ribosomal RNA
2. transcription 3. polymerase 4. translation
5. anticodon 6. Both DNA and RNA consist of a long chain of nucleotides. DNA, however, contains the base thymine. RNA contains uracil in place of thymine. DNA is double-stranded; RNA is singlestranded.
DNA has a deoxyribose sugar; RNA has a ribose sugar. 7. Messenger RNA carries protein assembly instructions, ribosomal RNA helps to assemble proteins, and transfer RNA carries amino acids used in the construction of proteins.
8. Answers may vary. Having a sequence of DNA that could be edited into several different mRNA molecules makes it possible for a single gene to produce several different proteins specifically used in different tissues. This allows a cell to carry less genetic material. It also makes it possible for very small changes in DNA sequences to have a large change in gene expression. This is a mechanism for evolutionary change. 9. The sequence CGCUAUAGC would produce the amino acid sequence arginine, tyrosine, and serine. 10. During transcription, the DNA would produce mRNA in which the third base is C, not A. Translation however, would be unaffected because the original and the altered codons, CGA and CGC, both specify the amino acid arginine.

Section Review 12-4

1. mutations 2. gene mutations 3. chromosomal mutation 4. deletion: involves the loss of all or part of a chromosome 5. duplication: produces extra copies of parts of a chromosome 6. inversion: reverses the direction of parts of chromosomes

7. translocation: occurs when part of one chromosome breaks off and attaches to another 8. Substitution and frameshift mutations are both point mutations, because they occur at a single point in the DNA sequence. However, a substitution affects only a single codon, whereas a frameshift mutation affects all the codons that follow the point of the mutation.
9. Polyploid plants are often larger and stronger. This benefits humans by increasing agricultural production and the food supply. 10. An insertion, or frameshift mutation, has occurred.

Chapter Vocabulary Review

1. transfer RNA 2. messenger RNA 3. ribosomal RNA 4. a 5. d 6. c 7. b 8. k 9. c 10. g 11. i 12. f 13. l 14. h 15. j 16. nucleotide 17. base pairing 18. chromatin 19. transcription 20. RNA polymerase 21. exons 22. translation 23. anticodon 24. don't need to know 25. don't need to know

Graphic Organizer

1. DNA molecule "unzips" and the two strands unwind. 2. Unwound strands of DNA serve as templates for new DNA. 3. DNA polymerase joins individual nucleotides to produce a new strand. 4. DNA polymerase proofreads the new strands.

12 Section Review Biology

**Lijun Shang, Weiwen Zhang, Malcolm
Dando**



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Federal Register ,2013 **The HLA Complex in Biology and Medicine** Narinder K Mehra,2010-11-26 A comprehensive guide to the HLA Human Leukocyte Antigen system for immunologists and clinicians this book contains up to date information on the MHC Major Histocompatibility Complex and its role in the immune response and in various diseases The book explores the biological significance and role of the HLA system in organ and haematopoietic stem cell transplantation management This volume is an invaluable guide to the full spectrum of HLA related science while also serving as a conceptual and technical resource for those involved in HLA related research and in clinical or surgical practice In addition it will be a primary point of contact for individuals working in other areas who suddenly find that their research is drawing them into the complexities of HLA genetics *Departments of Labor and Health, Education, and Welfare appropriations for 1980* United States. Congress. House. Committee on Appropriations. Subcommittee on the Departments of Labor and Health, Education, and Welfare,1979 **Approaches to Discourses of Marriage** Laura L. Paterson,Georgina Turner,2023-09-26 How do people talk about marriage Who gets to do the talking When why where and how do these things change From the experiences of women forced to marry as children to those of older women who never married from investigations of cross border marriage applications to Christian pastors sermons on divorce from oppositional media discussions of same sex marriage to pro marriage equality protest signs this collection presents research from across the globe addressing the often shifting context specific ways that we talk about marriage Developed from the work of the UK based Discourses of Marriage Research Group and a two day conference drawing together scholars interested in talk of marriage and related topics this interdisciplinary volume brings together linguists psychologists and film makers and draws on data from the UK Germany Taiwan the US Belgium and Turkey It is intended both as a survey of some contemporary trends in research on marriage and as a foundation for further research The chapters in this book except for chapters 1 and 7 were originally published as a special issue of the journal Critical Discourse Studies This volume comes with a new introduction **Biology Insights Ol Tb** ,2007 **Sif Biology Ol Tb** ,2007 **Essentials of Biological Security** Lijun Shang,Weiwen Zhang,Malcolm Dando,2024-02-27 Essentials of Biological Security A guide to minimizing the threat of misusing benignly intended and dual use biological research In Essentials of Biological Security A Global Perspective a team of distinguished researchers delivers a fundamental resource designed to raise awareness and understanding of biological security as it pertains to the malign manipulation of benignly intended scientific research Written by experts who have spent decades involved in biological security issues the book is systematically organized to make it accessible to a wide range of life scientists likely to encounter dangerous opportunities for the deliberate misuse of their research Readers will also find A thorough introduction to biological security and the chemical and biological weapons CBW threat spectrum Comprehensive explorations of the history of biological weapons from antiquity to modern day Practical discussions of dual use technologies

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