

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.

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