

**Section 1: From Genes to Proteins**

- \_\_\_\_\_ 1. ribonucleic acid (RNA)
- \_\_\_\_\_ 2. uracil
- \_\_\_\_\_ 3. transcription
- \_\_\_\_\_ 4. translation
- \_\_\_\_\_ 5. gene expression

- a. the entire process by which proteins are made
- b. a molecule made of linked nucleotides

- 6. Transcription begins when [RNA / RNA polymerase] binds to the gene's promoter.
- 7. RNA polymerase adds complementary [DNA / RNA] nucleotides as it "reads" the gene.
- 8. In eukaryotes, transcription takes place in the [nucleus / cytoplasm].
- 9. What are two differences between transcription and DNA replication?

- c. the process of reading instructions on an RNA molecule to put together the amino acids that make up a protein
- d. the process of transferring a gene's instructions for making a protein to an RNA molecule
- e. a nitrogen base used in RNA instead of the base thymine found in DNA

- 10. What determines where on the DNA molecule transcription begins and where it ends?

- 11. RNA, messenger RNA \_\_\_\_\_

- 12. codons, genetic code \_\_\_\_\_

**Study the following six steps in the synthesis of proteins. Determine the order. Write the number**

- \_\_\_\_\_ 13. The codon in the vacant A site receives the tRNA molecule with the complementary anticodon. The tRNA carries the amino acid specified by the codon.
- \_\_\_\_\_ 14. Steps 2–5 are repeated until a stop codon is reached. The newly made protein is released into the cell.
- \_\_\_\_\_ 15. The tRNA at the P site detaches, leaves behind its amino acid, and moves away from the ribosome.
- \_\_\_\_\_ 16. Enzymes help form a peptide bond between the amino acids of adjacent tRNA molecules.
- \_\_\_\_\_ 17. The tRNA (with its protein chain) in the A site moves over to fill the empty P site. A new codon is present in the A site, ready to receive the next tRNA and its amino acid.
- \_\_\_\_\_ 18. An mRNA, two ribosomal subunits, and a tRNA carrying a modified form of the amino acid methionine bind together. The tRNA bonds to the "start" codon AUG.

**Section 2: Gene Regulation and Structure**

- 1. To break down lactose, *Escherichia coli* need three different \_\_\_\_\_, each of which is coded for by a different gene.
- 2. The three genes are located next to each other, and all are controlled by the same \_\_\_\_\_ site.
- 3. The piece of DNA that overlaps the promoter site and serves as the on-off switch is called a(n) \_\_\_\_\_.
- 4. The group of genes that codes for enzymes involved in the same function, their promoter site, and the operator all function together as a(n) \_\_\_\_\_.
- 5. The operon that controls the metabolism of lactose is called the \_\_\_\_\_.
- 6. A(n) \_\_\_\_\_ is a protein that binds to an operator and physically blocks RNA polymerase from binding to a promoter site.
- 7. What are enhancers? \_\_\_\_\_
- 8. Why is there more opportunity for gene regulation in eukaryotic cells than in prokaryotic cells? \_\_\_\_\_
- 9. Why have no operons been found in eukaryotic cells? \_\_\_\_\_
- 10. When can gene regulation occur in eukaryotic cells? \_\_\_\_\_
- 11. What are introns and exons? \_\_\_\_\_
- 12. What happens to mRNA that includes introns? \_\_\_\_\_
- 13. What might be the evolutionary advantage of genes being interrupted by introns? \_\_\_\_\_
- 14. Mutations can only be passed on to offspring if they occur in [gametes / body cells].
- 15. Mutations that change one or just a few nucleotides in a gene on a chromosome are called [random / point] mutations.
- 16. If a mutation causes a gene containing the nucleotide sequence ACA to become ACT, the mutation is called a [substitution / deletion] mutation.
- 17. If a mutation causes a sequence of nucleotides to change from ACGAGA to ACGGA, the mutation is called a(n) [insertion / deletion] mutation.
- 18. If a mutation causes a sequence of nucleotides to change from ACGAGA to ACGAGGA, the mutation is called a(n) [insertion / deletion] mutation.

# Holt Biology Gene Technology Directed Ws Answers

**J Spring**



## **Holt Biology Gene Technology Directed Ws Answers:**

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