

13 RNA and Protein Synthesis

Chapter Test A

Multiple Choice

Write the letter that best answers the question or completes the statement on the line provided.

- _____ 1. Which of the following are found in both DNA and RNA?
- ribose, phosphate groups, and adenine
 - deoxyribose, phosphate groups, and guanine
 - phosphate groups, guanine, and cytosine
 - phosphate groups, guanine, and thymine

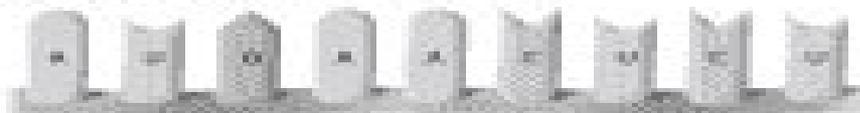


Figure 13-1

- _____ 2. Which nucleotide in Figure 13-1 indicates the nucleic acid above is RNA?
- uracil
 - guanine
 - cytosine
 - adenine
- _____ 3. What is produced during transcription?
- RNA molecules
 - DNA molecules
 - RNA polymerase
 - proteins
- _____ 4. During eukaryotic transcription, the molecule that is formed is
- complementary to both strands of DNA.
 - identical to an entire single strand of DNA.
 - double-stranded and inside the nucleus.
 - complementary to part of one strand of DNA.
- _____ 5. There are 64 codons and 20 amino acids. Which of the following is true?
- Several different codons can specify the same amino acid.
 - Each codon specifies a different amino acid.
 - Some amino acids have no link to a codon.
 - Each amino acid is specified by only one codon.
- _____ 6. A promoter is a
- binding site for DNA polymerase.
 - binding site for RNA polymerase.
 - start signal for replication.
 - stop signal for transcription.
- _____ 7. During translation, the type of amino acid that is added to the growing polypeptide depends on the
- codon on the mRNA and the anticodon on the tRNA.
 - anticodon on the mRNA and the anticodon on the tRNA.
 - anticodon on the tRNA and the codon on the mRNA.
 - codon on the mRNA and the anticodon on the tRNA.

Chapter 13 Lab From Dna To Protein Synthesis Answer Key

Suzanne Arinsburg, Jeffrey Jhang

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