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?
 - a. ribose, phosphate groups, and adenine
 - b. deoxyribose, phosphate groups, and guanine
 - e. phosphate groups, guanine, and cytosine
 - d. phosphate groups, guanine, and thymine



Figure 13-1

- 2. Which nucleotide in Figure 13-1 indicates the nucleic acid above is RNA?
 - a, umeil

c. cytosine

b. guanine

- d. adenine
- 3. What is produced during trunscription?
 - a. RNA molecules

e. RNA polymerase

b. DNA molecules

- d. proteins
- During eukaryotic transcription, the molecule that is formed is
 - a. complementary to both strands of DNA.
 - b. identical to an entire single strand of DNA.
 - e. double-stranded and inside the nucleus.
 - d. complementary to part of one strand of DNA.
- 5. There are 64 codons and 20 amino acids. Which of the following is true?
 - a. Several different codons can specify the same amino acid.
 - b. Each codon specifies a different amino acid.
 - c. Some amino acids have no link to a codon.
 - d. Each amino acid is specified by only one codon.
 - ___ 6. A promoter is a
 - a. binding site for DNA polymerase.
 - b. binding site for RNA polymerase.
 - c. start signal for replication.
 - stop signal for transcription.
- During translation, the type of amino acid that is added to the growing polypeptide depends on the
 - a. codon on the mRNA and the anticodon on the rRNA.
 - b. anticodon on the mRNA and the anticodon on the tRNA.
 - c. anticodon on the rRNA and the codon on the mRNA.
 - d. codon on the mRNA and the anticodon on the tRNA.

Rna And Protein Synthesis Chapter Test A

R Bogdan

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