# 1 3 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
  - c. 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. uracil.

c. cytosine

b. guanine

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

c. RNA polymerase

b. DNA molecules

- d. proteins
- 4. 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.
  - c. 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?
  - 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.
    - e. start signal for replication.
    - d. stop signal for transcription.
- 7. 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.

# **Answer Key Explorelearning Rna And Protein Synthesis**

**Yoshito Kaziro** 

#### **Answer Key Explorelearning Rna And Protein Synthesis:**

Transfer RNA in Protein Synthesis Dolph L. Hatfield, Byeong J. Lee, Robert M. Pirtle, 1992 RNA and Protein Synthesis Kivie Moldave, 2012-12-02 RNA and Protein Synthesis is a compendium of articles dealing with the assay characterization isolation or purification of various organelles enzymes nucleic acids translational factors and other components or reactions involved in protein synthesis One paper describes the preparatory scale methods for the reversed phase chromatography systems for transfer ribonucleic acids Another paper discusses the determination of adenosine and aminoacyl adenosine terminated sRNA chains by ion exclusion chromatography One paper notes that the problems involved in preparing acetylaminoacyl tRNA are similar to those found in peptidyl tRNA synthesis in particular to the lability of the ester bond between the amino acid and the tRNA Another paper explains a new method that will attach fluorescent dyes to cytidine residues in tRNA it also notes the possible use of N hydroxysuccinimide esters of dansylglycine and N methylanthranilic acid in the described method One paper explains the use of membrane filtration in the determination of apparent association constants for ribosomal protein RNS complex formation This collection is valuable to bio chemists cellular biologists micro biologists developmental biologists and investigators working with enzymes Yoshito Kaziro, 1971 Protein Synthesis and Ribosome Structure Knud H. Nierhaus, Daniel Wilson, 2009-07-10 Knud Nierhaus who has studied the ribosome for more than 30 years has assembled here the combined efforts of several scientific disciplines into a uniform picture of the largest enzyme complex found in living cells finally resolving many decades old questions in molecular biology In so doing he considers virtually all aspects of ribosome structure and function from the molecular mechanism of different ribosomal ribozyme activities to their selective inhibition by antibiotics from assembly of the core particle to the regulation of ribosome component synthesis. The result is a premier resource for anyone with an interest in ribosomal protein synthesis whether in the context of molecular biology biotechnology pharmacology or molecular medicine Effect of Double-stranded RNA on Protein Synthesis in Cell-free Systems Laurence Kay Grill, 1975 Α Review of Selected Research Relating RNA and Protein Synthesis with Memory Marilyn S. Townsend, 1970 **RNA** and Protein Synthesis in the Differentiation of the Lens Alan T. H. Burns, 1975 RNA and Protein Synthesis in the Differentiation of the Lens Alan T. H. Burns, 1975 The Timing of DNA, RNA and Protein Synthesis in the Hypotrich The RNA Code and Protein Synthesis ,1966 **Stylonychia Notophora Stokes** David Thomas Vistica,1970

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