

Biology I

Transcription

Practice Sheet

New Vocabulary

Write the correct term in the left column for each definition below.

process in which RNA is synthesized from DNA

a group of three nitrogenous bases in DNA or mRNA that code for one amino acid

nucleic acid made of ribose, phosphate, and one of four nitrogenous bases—adenine, cytosine, guanine, or uracil

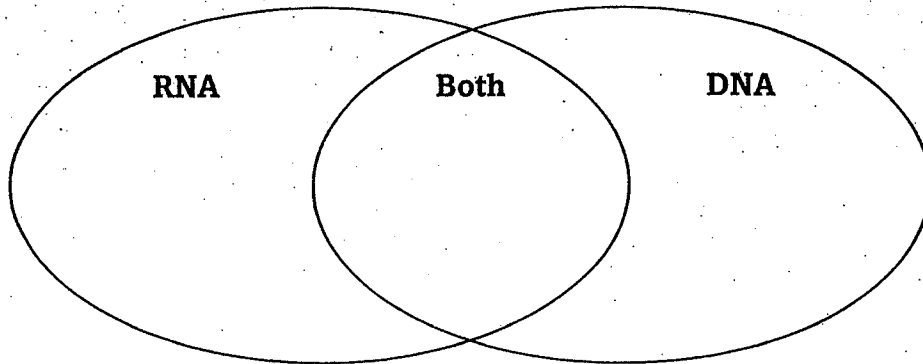
intervening DNA sequences that are transcribed and then removed from the final mRNA

an enzyme that catalyzes the synthesis of mRNA using DNA as a template

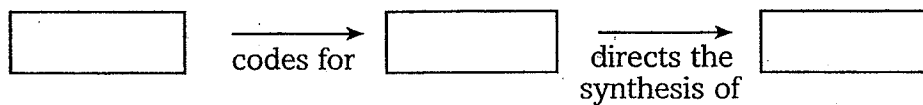
For each statement below, write true or false.

1. The central dogma of biology, or the mechanism of reading and expressing genes in all living things, can be expressed as follows:
DNA → RNA → proteins.
2. The process of the synthesis of mRNA from DNA is called translation.

Compare and contrast RNA and DNA by writing at least five characteristics of their structure and composition in the Venn diagram.



State the central dogma of biology.



Compare the function of each type of RNA molecule by completing the table.

Type of RNA	Function
mRNA	
rRNA	
tRNA	

Sequence the steps in transcription of RNA.