

DNA and RNA Study Guide – ANSWER KEY

1. What is the structure of DNA?

DNA is a double helix model, much like a zipper on a jacket.

2. What are the four nitrogenous bases in DNA?

Adenine, Guanine, Cytosine, Thymine

3. What are the four nitrogenous bases in RNA?

Adenine, Guanine, Cytosine, Uracil

4. A single strand of DNA acts as a template for:

mRNA

5. What are the three parts of a Nucleotide?

Phosphate Group, Five Carbon Sugar, Nitrogenous Base

6. In messenger RNA, each codon specifies a particular

Amino Acid

7. Before a cell divides, it must duplicate its own DNA in a process known as...

DNA Replication

8. The genetic code in DNA depends upon the order or sequence of...

Nitrogenous Bases

9. If one strand of DNA has the nitrogenous base sequence ATCGT, the sequence of bases on the COMPLEMENTARY STRAND of DNA is...

TAGCA

10. What type of RNA is responsible for bringing amino acids to the ribosome for protein synthesis?

tRNA

11. The messenger RNA will carry the DNA's instructions out of the nucleus to the:

Ribosome

12. Given the following DNA strand, what would the mRNA strand be?

T A C G T T G C A

A U G C A A C G U

Use the figure below to answer the following questions:



13. What is the figure demonstrating?

Translation

14. The process by which the genetic code of DNA is copied into a strand of RNA is...

Transcription

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Gail Patt,Anita Bennett

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Study Guide and Full Solutions Manual Susan McMurry, John McMurry, 2002-08 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all end of chapter problems in the textbook

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