

Worksheet: DNA, RNA, and Protein Synthesis

BIOLOGY: Chapter 6-9

Directions: Use your notes and book to answer the following questions concerning Replication, Transcription, and Protein Synthesis.

1. Define the following terms:

- a. **Replication**- the act of copying something, almost identical, in dna
the first of several steps of DNA based gene expression in which a particular segment of DNA is copied into RNA by the enzyme RNA polymerase
- b. **Transcription**-
- c. **Translation**- translation is the process in which ribosomes in the cytoplasm or endoplasmic reticulum synthesize proteins after the process of transcription of DNA to RNA in the cell's nucleus

2. Break the following DNA sequence into **triplets**. (Draw a line to separate triplets)

C C G | A T A | C G C | G G T | A T C | C C A | G G G | C T A | A T T | U A A

3. If the above code showed the bases on one strand of DNA, what would the **complementary strand** read?

G G C T A T G C G C C A T A G G G T C C C G A T T A A T T T

4. What would the code in problem #2 be **transcribed** into (What would the mRNA sequence be?)

G G C U A U G C G C C A U A G G G U C C C G A U U A A U U U

5. How many **codons** are there in the above problem? **10**

6. What is the three letter sequence on a **tRNA** molecule called? **anticodon**

7. How many different **amino acids** are there that make up all of the proteins in our body?

8. How many different **codons** are there? **20**

Dna And Rna Lab 24 Answers

M Mark



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