



Name: _____

Date: _____ Block: _____

DNA, RNA and Protein Synthesis

Use your notes and the book pages 42-43 and answer the following questions:

1. Define the following terms:

- a. **Replication-** The process by which DNA is duplicated before a cell divides
- b. **Transcription-** The process by which a molecule of DNA is copied into a complementary strand of mRNA

Translation- Process in which a message carried by messenger RNA is decoded into a polypeptide chain (protein) by ribosomes in the cytoplasm

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

CCG|ATA|CGC|GGT|TTT|CCC|AGG|G|CTA|ATT|TAA

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

GGC TAT GCG CCA AAG GGT CCC GAT TAA ATT

4. What would the code in problem #2 be transcribed into if it was copied into mRNA? (RNA is the same as DNA except instead of Thymine it has Uracil. That means A combines with U instead of T)

GGC UAU GCG CCA AAG GGU CCC GAU UAA AUU

5. How many "three-letter-word" codons are there in the above problem?

10

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

20

7. How many different codons are there? 64



Protein Synthesis Webquest Answers

Robin Martin



Protein Synthesis Webquest Answers:

Decoding **Protein Synthesis Webquest Answers**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Protein Synthesis Webquest Answers**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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