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## 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



# Replication And Protein Synthesis Webquest Answer Key

**Jicheng Xie**



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*Protein Synthesis* Barbara L. Rosenberg, TVOntario, 1985      **Carbohydrate and Protein Synthesis**, 1978      On the Temporal Relationship Between Non-histone Protein Synthesis and DNA Replication in Normal and Irradiated Mammalian Cells Eugene Williard Gerner, 1974      **Cell-Free Protein Synthesis** Kirill Alexandrov, Wayne A. Johnston, 2014-01-09 Cell free protein expression promises to narrow the technological gap between DNA and protein technologies and provide a platform for broad application of synthetic biology principles in the Life Sciences It is a rapid and high throughput methodology for the conversion of DNA encoded genetic information into protein mediated biochemical activities Cell Free Protein Synthesis Methods and Protocols brings together the key opinion leaders of cell free technology development and provides case studies and detailed protocols for the application of cell free methodology Chapters cover the main directions in the development of cell free technologies including several recently developed cell free systems as well as a number of applications of cell free systems ranging from discovery of biofuel enzymes to in vitro assembly of viruses Written in the successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible protocols and notes on troubleshooting and avoiding known pitfalls Authoritative and easily accessible Cell Free Protein Synthesis Methods and Protocols seeks to serve a wide variety of scientists with its well honed methodologies      *Extending the Scope of Protein Synthesis by a Novel Auxiliary-based Native Chemical Ligation Strategy* Christina Nadler, 2013-09-18      The Use of Radioautography in Investigating Protein Synthesis International Society for Cell Biology, 1968      *Proofreading During Protein Synthesis* Tarmo Ruusala, 1985

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