

BIO 181 General Biology

Chapter 17 Study Guide

Name: _____

Chapter 17: Gene Expression: From Gene to Protein

1. What is *gene expression*? The process by which DNA directs protein synthesis (transcription, translation)

2. Describe each of these processes that are essential to the formation of a protein:

Transcription: is the synthesis of RNA using information in DNA, produces messenger RNA (mRNA)

Translation: is the synthesis of a polypeptide, using information in the mRNA

3. Write the *central dogma* of molecular genetics, stated by Francis Crick in the boxes below. This is the essential direction of flow of genetic information. Memorize and understand the central dogma.



4. How many nucleotide bases are there? 4 How many amino acids? 20

5. How many nucleotides are required to have a unique code for each of these 20 amino acids?
three

6. The language of DNA is a *triplet code*. How many unique triplets exist? 64

7. Of the 64 possible codons, how many code for amino acids? 61

8. What event is coded for by the codons UAA, UAG, and UGA? STOP

9. What is the *start codon*? AUG

10. Why is the genetic code said to be *redundant* but not *ambiguous*?

Genetic code is redundant (more than one codon may specify a particular amino acid) but not ambiguous; no codon specifies more than one amino acid

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