

Name: \_\_\_\_\_

\_\_\_\_ period

DUE Date: \_\_\_\_\_  
Chapter 17: From Gene to Protein

Directions:

Read the assigned chapter in the book and complete the directed reading guide. For your own benefit please do not leave this assignment until the night before it is due. This is an individual assignment, as such, it is expected that all work on this will be your own.

1. How did diseases involving metabolic pathways lead to hypotheses about the nature of genes?  
\_\_\_\_\_  
\_\_\_\_\_
2. Identify some genetic diseases that occur along metabolic pathways.
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
3. What was Beadle and Tatum's hypothesis regarding enzymes?  
\_\_\_\_\_  
\_\_\_\_\_
4. How has that hypothesis been modified?  
\_\_\_\_\_  
\_\_\_\_\_
5. What occurs during transcription?  
\_\_\_\_\_
6. What occurs during translation?  
\_\_\_\_\_
7. How does the protein process differ in prokaryotes and eukaryotes?  
\_\_\_\_\_  
\_\_\_\_\_
8. What is the genetic code?  
\_\_\_\_\_
9. Why is the genetic code said to be universal?  
\_\_\_\_\_  
\_\_\_\_\_
10. List several features about the genetic code.  
\_\_\_\_\_  
\_\_\_\_\_
11. Give an example of what happens if reading frames are altered?  
\_\_\_\_\_  
\_\_\_\_\_
12. List the highlights of the three stages of transcription.
  - a. Initiation  
\_\_\_\_\_  
\_\_\_\_\_
  - b. Elongation  
\_\_\_\_\_  
\_\_\_\_\_
  - c. Termination  
\_\_\_\_\_  
\_\_\_\_\_

# Ap Bio Chapter 17 Reading Guide Answers

**Chao Zhang**



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