**CHAPTER 17 READING GUIDE**

**-FROM GENE TO PROTEIN-**

***Section 1***

1. What is meant by the term gene expression?

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1. What is the job of the messenger RNA (mRNA)?

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1. What happens in transcription and translation? Where do they occur?

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1. What is a codon?

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***Section 2***

1. Explain the role of RNA polymerase in transcription.

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1. What is the function of the promoter and terminator sequences?

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1. Explain the importance of the TATA box.

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***Section 3***

1. Explain what happens in RNA splicing? Why are some parts edited out?

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1. What are introns and exons?

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1. What is the job of the spliceosome?

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***Section 4***

1. What is the job of the transfer RNA (tRNA)?

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1. What is an anticodon? Where is it found?

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1. What is the job of the ribosomal RNA (rRNA)?

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***Sections 5 and 6***

1. Explain the difference between a silent mutation, a missense mutation and a nonsense mutation.

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1. What is a mutagen?

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