Chapter 13 Study Guide

What determines traits?

What is RNA and what are 3 ways it is different from DNA?

Define Transcription.

Where does transcription happen in a cell?

What are the four stages of transcription?

What is a promoter site? What is the specific promoter site in eukaryotic cells?

What is RNA Polymerase? What does it do?

What is built during transcription?

What is a terminator? What does it code for?

What two things are done to change the pre-mRNA transcript?

What is an intron?

What is an exon?

What enzyme cuts out the introns and connects the exons?

Where does translation occur?

What is a ribosome? What is it made of?

What are the 3 stages of translation?

What is always the start codon?

What is a tRNA molecule and what does it do?

What is a codon? Where are they located?

What is an anticodon? Where are they located?

Explain elongation of transcription. (Essay)

What are the three “sites” on a ribosome?

What terminates translation (type of signal)?

How many ribosomes translate at the same time?

Describe the lac-operon.

What are point mutations? What are the three types of point mutations?

What are frame shift mutations?