

## BIOLOGY SECOND SEMESTER STUDY GUIDE

### CHAPTER 12

#### **I. Important definition terms and concepts:**

- Transformation
- Bacteriophage
- Nucleotide
- Base pairing
- Chromatin
- Histone
- Replication
- DNA polymerase
- Messenger RNA
- Ribosomal RNA
- Transfer RNA
- Transcription
- RNA polymerase
- Promoter
- Intron
- Exon
- Codon
- Translation
- Anticodon
- Mutation
- Point mutation
- Frameshift mutation

#### **II. Important discussion ideas:**

- Describe the overall structure of the DNA molecule.
- What is Chargaff's rule? What did Watson & Crick discover?
- Summarize the events of DNA replication.
- Compare and contrast RNA and DNA.
- Describe transcription, editing of RNA, and genetic code.
- Identify the genetic code.
- List/explain the types of mutations; contrast gene mutations and chromosomal mutations.

### CHAPTER 13 RNA and Protein Synthesis

#### **III. Important definition terms and concepts:**

- RNA
- intron
- Gene expression
- exon
- Mutation
- Ribosomal RNA
- polypeptide
- point mutation
- Transfer RNA
- genetic code
- frameshift mutation
- Transcription
- codon
- mutagen
- RNA polymerase
- translation
- polyploidy
- Promoter
- anticodon
- operon

# Biology Second Semester Study Guide

**Ensheng Dong**



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