**REVIEW GUIDE FOR UNIT 6 EXAM – GENE EXPRESSSION**

Heterozygote advantage

Exon splicing

Exons vs. introns

Inducible operons

Repressible operons

Gel electrophoresis

Polymerase chain reaction

Horizontal gene transfer

* Conjugation
* Transformation
* Transduction

Template vs nontemplate strand of DNA

Directionality of nucleic acids

Base pairing rules for DNA and RNA

Semi-conservative nature of DNA replication

Lagging vs. leading strnads

Helicase

Topoisomerase

DNA polymerase vs RNA polymerase

Translation vs. transcription

Types of mutation

Prokaryotic vs. eukaryotic DNA