

Exam #2 Study Guide

Chapter 19

- (1) What are the two ways in which cells divide?
 - (1) Mitosis
 - (2) Meiosis
- (2) What is a **chromosome**?
 - a tightly coiled combination of a DNA molecule and specialized proteins called *histones*
 - (2.1) Where are chromosomes found in the cell?
 - the cell nucleus
 - (2.2) **histones** combined with the DNA are for support and control of gene activity
- (3) What is a **gene**?
 - a specific segment of the DNA that directs the synthesis of a protein, which in turn plays a structural or functional role within the cell
 - (3.1) genes are arranged in a fixed sequence
 - (3.2) genes determine the expression of a particular characteristic or trait
 - (3.3) genes also occur in pairs
 - the members of each gene pair are located at the same position on **homologous chromosomes**
- (4) What is a **somatic cell**?
 - all cells except eggs or sperm have 46 chromosomes
 - (4.1) Humans have 46 chromosomes = 23 pairs of chromosomes
 - one member of each pair comes from the mother's egg and the father's sperm
 - (4.2) Each contain 23 **homologous chromosome pairs**, a pair being two chromosomes with genes for the same traits

Midterm Study Guide For Biology 100

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Midterm Study Guide For Biology 100:

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 - Chapter 5: Conclusion
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