

MRS. HILL'S BIOLOGY STUDY GUIDE
2ND SEMESTER

Here is some general information on what we covered for the second semester... ENJOY!!

CHROMOSOMES AND CELL REPRODUCTION (CHAPTER 10)

A. CHROMOSOME STRUCTURE:

1. During cell division, the DNA (CHROMATIN) in a eukaryotic cell's nucleus is coiled into very tight compact structures, called **CHROMOSOMES**.
2. When preparing for cell division, chromosomes form copies of themselves, each half of the chromosome is called a **CHROMATID** or **SISTER CHROMATIDS**. Chromatids form as the DNA makes copies of itself before cell division.
 - a. The coiled/coiled ends of each chromatid is called a **CENTROMERE**. The centromere holds the two chromatids together until the separation during cell division.



B. CHANGES IN CHROMOSOME STRUCTURE:

1. Changes in an organism's chromosome structure are called **mutations**.
2. Breakage of a chromosome can lead to four types of mutations:
 - a. **Deletion mutation**- a piece of chromosome breaks off completely. After cell division, the new cell will lack a certain set of genes.
 - b. **Duplication mutation**- a chromosome fragment attaches to its homologous chromosome, which will then carry two copies of a certain set of genes.
 - c. **Inversion mutation**- the chromosome piece reattaches to the original chromosome but in a reverse orientation. If the piece reattaches to a non-homologous chromosome, a **translocation mutation** results.

C. CHROMOSOME NUMBERS:

1. Each human body cell contains **46 CHROMOSOMES**, (23 OR TWO COMPLETE SETS).
2. Any cell that contains **TWO COMPLETE SETS** of chromosomes is called a **DIPLOID CELL**. A diploid cell is commonly abbreviated as $2n=46$.
3. A cell with **only ONE COMPLETE SET** of chromosomes is called a **HAPLOID CELL**. A haploid cell is abbreviated as $1n=23$.

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Cathy Duffy

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The Shattered Put Back Together Vanessa L. Jones,2009-05

Cases on Distance Delivery and Learning Outcomes:

Emerging Trends and Programs Gearhart, Deb,2009-10-31 This book provides practitioners in the field of distance

education a case book that is a valuable reference of best practices in the field Provided by publisher

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applying material from each chapter in the text The review questions prepare you for success in pharmacology and on the

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learning activities A Student Study Tips section provides study techniques time management skills and test taking strategies

An Overview of Dosage Calculations section offers practice problems sample drug labels and a quiz In depth case studies

help you apply information to real world situations NCLEX Examination Preparation sections in each chapter contain

numerous NCLEX Examination style practice questions many of them application based including at least one alternate

format question per chapter An increased focus on prioritization provides practice in identifying the most important need to

know nursing actions Drug dosage calculation questions one of which appears in every chapter facilitate mastery of the

mathematics of drug dosing Study Guide for Pharmacology and the Nursing Process - E-Book Linda Lane Lilley,Shelly

Rainforth Collins,Julie S. Snyder,2013-12-27 Study Guide for Pharmacology and the Nursing Process 7th Edition is designed

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