

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**, 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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RD Boyd

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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 **Mastering Problem-Based Learning in Health Profession Programs** Santiago Lorenzo,Bei Zhang,2025-12-24 The book Mastering Problem Based Learning Principles Procedures and Best Practices is a collective and collaborative work by ten PBL experts who possess an insightful understanding of PBL extensive experience and a successful track record particularly in medical and health education This book provides practical wisdom and helpful tips aimed at guiding educators and administrators in medical dental pharmacy nursing schools or allied health institutions to 1 Design and implement a PBL curriculum with vision strategy and appropriate use of resources 2 Construct PBL cases and facilitator guides aligned with educational goals and learning outcomes 3 Transform and develop teachers from being instructors to becoming facilitators 4 Advise students through PBL to overcome challenges and avoid pitfalls 5 Facilitate a PBL session to promote active learning 6 Create and manage PBL examinations 7 Generate meaningful feedback for both PBL facilitators and learners for continuous improvement 8 Migrate PBL from traditional physical classrooms to online environments 9 Adopt AI in the practice of PBL 10 Overcome challenges and avoid pitfalls in PBL implementation [Study Guide for Pharmacology for Canadian Health Care Practice - E-Book](#) Kara Sealock,Cydnee Seneviratne,2024-06-13 Ensure your mastery of need to know Canadian pharmacology nursing principles with the Study Guide for Lilley s Pharmacology for Canadian Health Care Practice 5th Edition Designed to accompany the Lilley s textbook this dynamic study guide helps you better understand retain and apply the information and concepts from each chapter of the text Worksheets for each chapter include multiple choice review questions critical thinking and application questions case studies and a wealth of other learning activities to help you fully prepare for credentialling exams NEW Thoroughly updated content reflects the organization and updated information housed in the fifth edition of Lilley s Pharmacology for Canadian Health Care Practice Chapter by chapter worksheets are divided into three main sections chapter review and examination preparation including multiple choice and matching questions critical thinking and application questions with some chapters including a critical thinking crossword puzzle and case studies Chapter review and examination preparation in each chapter worksheet includes a number of application based practice questions for the Next Generation NCLEX NGN including at least one alternate item question per chapter UNIQUE Cartoon illustrated study tips help you manage your study time more effectively and expand upon the study skills tips included on the accompanying Evolve website Variety of questions includes fill in the blank multiple choice labelling and ordering matching and short answer Focus on prioritization features at least one prioritization exercise in each chapter in which you must evaluate a clinical scenario and answer the question What is the nurse s best action These exercises provide practice with

identifying the most important need to know nursing actions Overview of Dosage Calculations section features explanations of key drug calculations concepts sample drug labels practice problems and a practice quiz Answers for all exercises are provided at the back of the book to facilitate self study **Study Guide for Pharmacology and the Nursing Process**

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