

MRS. HILL'S BIOLOGY STUDY GUIDE 2ND SEMESTER

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

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 constricted area of each chromatid is called a **CENTROMERE**. The centromere holds the two chromatids together until they separate during cell division.



B. CHANGE 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 (2n) 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** or **46**.
3. A cell with only **ONE COMPLETE SET** of chromosomes is called a **HAPLOID CELL**. A haploid cell is abbreviated as **1n** or **n=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 *Study Guide for Pharmacology and the Nursing Process* Linda Lane Lilley,Julie S. Snyder,Shelly Rainforth Collins,2012-12-17 Master the content from the Lilley textbook with the Study Guide for Pharmacology and the Nursing Process 6th Edition Designed to accompany Lilley s Pharmacology and the Nursing Process 6th Edition this workbook will assist you in understanding and applying material from each chapter in the text The review questions prepare you for success in pharmacology and on the NCLEX Examination Worksheets for each chapter include multiple choice questions critical thinking and application questions case studies and other educationally sound learning activities Worksheets for each chapter include NCLEX Examination style review questions critical thinking and application questions case studies and other educationally sound 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 to accompany the Lilley s Pharmacology and the Nursing Process 7th Edition textbook preparing you for success in pharmacology and on the NCLEX Examination Worksheets for each chapter include NCLEX RN Examination style review questions case studies critical thinking and application questions case studiesmultiple choice questions and other educationally sound rich learning activities Special Overview of Dosage Calculations Section features a practice quiz and explanations of key drug calculations concepts sample drug labels and practice problems and a practice quiz Student Study Tips Section offers study techniques time management tips and test taking strategies expands on the textbook s Study Skills Tips to enhance understanding Application based NCLEX Examination style practice questions prepare you for help you understand how information in the book applies to real life situationsproblem solving in the clinical setting Updated NCLEX Examination style questions prepare you to pass for the NCLEX Exam Illustrated based questions mimic NCLEX Examination hotspot illustration exam questions strengthening exam your readiness readinessfor the state boards Study Guide for Pharmacology for Canadian Health Care Practice - E-Book Kara Sealock,Cydnee Seneviratne,2024-06-13 Ensure

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