

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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Accounting, the Basis for Business Decisions Walter B. Meigs, Robert F. Meigs, 1987 Instructor s guide and answers to achievement tests and comprehensive examinations sets A B C and D *Minneapolis Public Schools* Minneapolis Public Schools. Board of Education, 1889 *Southwestern Journal of Education* ,1890 **American Physical Education Review** ,1925 Includes abstracts of magazine articles and Book reviews **Student Guide to University Policies and Rules** ,1995

Official Study Guide for the CLEP Examinations, 1998 College Entrance Examination Board, 1997 The College Level Examination Program CLEP tests are comprehensive 90 minute exams used to award full college credit for demonstrating college level achievement in a variety of areas in subjects This guide helps students decide which CLEP exams to take helps them interpret their CLEP scores and includes sample questions and answers for all 34 exams and a list of study resources

The National Guide to Educational Credit for Training Programs American Council on Education, 2005 Highlights over 6 000 educational programs offered by business labor unions schools training suppliers professional and voluntary associations and government agencies **West's Federal Tax Volume Iii 1999** Willis, Eugene Willis, William Hoffman, David Maloney, Bill Raabe, 1998-05 YOUR GUIDE TO UNDERSTANDING Written specifically for the student who needs help understanding the difficult concepts in the Individual Income Tax and the Corporations Partnerships Estates Trusts Taxation courses The Study Guide contains chapter reviews of key concepts and self evaluation tests *Wft Comprehensive Volume* Eugene Willis, William Hoffman, 1999-04 This Study Guide is designed to assist students in comprehending the concepts and principles presented in the text Problems and brief objective questions are included with solutions in the back of the Study Guide **The Adult Student's Guide** Leigh Grossman, Lesley McBain, 2001 A comprehensive guide to colleges throughout the country who offer bachelor s degree programs geared specifically for adult students returning to college In addition to an introductory section containing information and tips on financial aid juggling home school and work responsibilities and how best to succeed as an adult student the book lists over 600 programs including costs requirements and program overviews Appendices include indexes of religious degree programs and women s college degree programs Study Guide for the Write Course H. Stover, Harryette Stover, 1984 An imaginative way to learn the nuts and bolts of good writing Features a dramatized writing assignment interspersed with interviews to emphasize the process method Practical advice is offered by

contemporary authors while mini documentaries filmed on location in business and government offices tackle real life writing problems emphasizing the need for clarity and organization EUSA Review ,2001 Aero/space Engineering ,1958
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