

# MRS. HILL'S BIOLOGY STUDY GUIDE

## 2<sup>ND</sup> SEMESTER

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

### CHROMOSOMES AND CELL REPRODUCTION (CHAPTER 13)

#### 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 2n or n=23.

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**Lucy E. Hall**



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**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

Christian Home Educators' Curriculum Manual Cathy Duffy,1992

*Course of Study Bulletin* South Dakota. Dept. of Public Instruction,1934

*The National Guide to Educational Credit for Training Programs* ,2000

**Psychology** Gregory H. Cutler,John W. Santrock,1999-07

*Report* Rochester (N.Y.). Board of Education,1891

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