

# 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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