

# 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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**ML Yell**



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## **Table of Contents 2nd Semester Study Guide Fill In The Blank**

1. Understanding the eBook 2nd Semester Study Guide Fill In The Blank
  - The Rise of Digital Reading 2nd Semester Study Guide Fill In The Blank
  - Advantages of eBooks Over Traditional Books
2. Identifying 2nd Semester Study Guide Fill In The Blank
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 2nd Semester Study Guide Fill In The Blank
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2nd Semester Study Guide Fill In The Blank
  - Personalized Recommendations
  - 2nd Semester Study Guide Fill In The Blank User Reviews and Ratings
  - 2nd Semester Study Guide Fill In The Blank and Bestseller Lists
5. Accessing 2nd Semester Study Guide Fill In The Blank Free and Paid eBooks

- 2nd Semester Study Guide Fill In The Blank Public Domain eBooks
  - 2nd Semester Study Guide Fill In The Blank eBook Subscription Services
  - 2nd Semester Study Guide Fill In The Blank Budget-Friendly Options
6. Navigating 2nd Semester Study Guide Fill In The Blank eBook Formats
    - ePub, PDF, MOBI, and More
    - 2nd Semester Study Guide Fill In The Blank Compatibility with Devices
    - 2nd Semester Study Guide Fill In The Blank Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of 2nd Semester Study Guide Fill In The Blank
    - Highlighting and Note-Taking 2nd Semester Study Guide Fill In The Blank
    - Interactive Elements 2nd Semester Study Guide Fill In The Blank
  8. Staying Engaged with 2nd Semester Study Guide Fill In The Blank
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers 2nd Semester Study Guide Fill In The Blank
  9. Balancing eBooks and Physical Books 2nd Semester Study Guide Fill In The Blank
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection 2nd Semester Study Guide Fill In The Blank
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine 2nd Semester Study Guide Fill In The Blank
    - Setting Reading Goals 2nd Semester Study Guide Fill In The Blank
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of 2nd Semester Study Guide Fill In The Blank
    - Fact-Checking eBook Content of 2nd Semester Study Guide Fill In The Blank
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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