

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 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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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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