

Unit Study Guide: Meiosis, DNA-RNA-Protein Synthesis, & Biotechnology

This study guide must be submitted no later than start of class on test day. Late work will NOT be accepted.

I. Meiosis

1. Use the word bank below to complete the following:

[independent assortment, asexual, 100, somatic cells, 50, crossing-over, sexual, diploid, haploid, gametes]

a- Meiosis is involved in this type of reproduction: Sexual

b- Meiosis ensures that the zygote is diploid at fertilization by making reproductive cells that are haploid.

c- If a cell starts meiosis with 100 chromosomes, then each daughter cell has 50 chromosomes.

d- During meiosis, chromosomes exchange genes (DNA) during an event called crossing-over.

e- The daughter cells of meiosis differentiate to become (a sexual cell ie. sperm or egg).

2. Determine if the statement applies to meiosis (ME), mitosis (MI), or both (B).

ME a- The chromosome number in daughter cells is reduced to half the number of chromosomes

found in the original parent cell.

B b- It goes through DNA replication before the cell divides.

ME c- Germ cells are destined to become sperm and egg.

MI d- A form of asexual reproduction resulting in daughter cells that are genetically alike.

MI e- Produces new cells for growth or to replace damaged/worn out cells.

B f- The chromosome number in daughter cells is the same as in the original parent cell.

B g- Goes through interphase, PMAT, and cytokinesis.

ME h- The daughter cells are genetically different from each other and from the original parent cell.

ME i- A diploid parent cell produces four haploid daughter cells.

ME j- It goes through the event shown below:



II. DNA

3. Use the word bank below to complete the following:

[Franklin, Watson, Hershey, Crick, Chase, amino acids, CAAGUU, A-U & G-C, nucleotides, sugar & phosphate, A-T & G-C, GAAGTT, base pairs]

a- The monomers or building blocks that are joined together to form DNA are called nucleotides.

b- The backbone of DNA consists of which 2 things? Sugar & phosphate

c- What are the complementary base pairs in DNA? A-T & G-C

d- If a strand of DNA is GTTCAA, then the complementary DNA strand is: CAAGTT

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David Peebles



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 - The Rise of Digital Reading Genetics Study Guide Scribd
 - Advantages of eBooks Over Traditional Books
2. Identifying Genetics Study Guide Scribd
 - 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 Genetics Study Guide Scribd
 - User-Friendly Interface
4. Exploring eBook Recommendations from Genetics Study Guide Scribd
 - Personalized Recommendations
 - Genetics Study Guide Scribd User Reviews and Ratings
 - Genetics Study Guide Scribd and Bestseller Lists
5. Accessing Genetics Study Guide Scribd Free and Paid eBooks
 - Genetics Study Guide Scribd Public Domain eBooks
 - Genetics Study Guide Scribd eBook Subscription Services
 - Genetics Study Guide Scribd Budget-Friendly Options
6. Navigating Genetics Study Guide Scribd eBook Formats

- ePub, PDF, MOBI, and More
 - Genetics Study Guide Scribd Compatibility with Devices
 - Genetics Study Guide Scribd Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Genetics Study Guide Scribd
 - Highlighting and Note-Taking Genetics Study Guide Scribd
 - Interactive Elements Genetics Study Guide Scribd
 8. Staying Engaged with Genetics Study Guide Scribd
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Genetics Study Guide Scribd
 9. Balancing eBooks and Physical Books Genetics Study Guide Scribd
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Genetics Study Guide Scribd
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Setting Reading Goals Genetics Study Guide Scribd
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Genetics Study Guide Scribd
 - Fact-Checking eBook Content of Genetics Study Guide Scribd
 - Distinguishing Credible Sources
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 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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