

## 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, CAAGTT, 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

# Study Guide For Molecular Genetics

**Bob Garrett**



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