

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

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