Biology Assignment 7:

1. Any change or random error in a DNA sequence.

mutagen

mutation

nondisjunction

polyploidy

2. Any agent that can cause a change in DNA; includes high-energy radiation, chemicals, or high temperatures.

mutagen

mutation

polypoidy

nondisjunction

3. Mutation that occurs when a single base is added or deleted from DNA; causes a shift in the reading of the codons by one base.

chromosomal mutation

point mutation

frameshift mutation

inversion

4. Mutation that occurs at the chromosome level resulting in changes in the gene distribution to gametes during meiosis; caused when parts of the chromosome break off or rejoin incorrectly.

point mutation

frameshift mutation

chromosomal mutation

5. Mutation in a DNA sequence; occurs from a change in a single base pair.

point mutation

frameshift mutation

chromosomal mutation

mutagen