
IB BIOLOGY GENETICS QUESTIONS AND ANSWERS WITH SOLUTIONS 2024

Gene - ANSWER a heritable factor that controls a specific characteristic.

Allele - ANSWER one specific form of a gene, differing from other alleles by one or a few bases only and occupying the same locus as other alleles of the gene.

Genome - ANSWER The whole of the genetic information of an organism

gene mutation - ANSWER a change in the base sequence of a gene.

Base substitution - ANSWER The smallest possible change is when one base in a gene is replaced by another. An example of this type of mutation is sickle cell anemia

Meiosis - ANSWER a reduction division of a diploid nucleus to form haploid nuclei.

Homologous chromosomes - ANSWER chromosomes with the same genes in the same loci but not necessarily the same alleles of those genes.

Random orientation - ANSWER during prophase I the position of each pair of chromosomes when the spindle attaches is random

Non-disjunction - ANSWER sometimes chromosomes that should separate and move to opposite poles during meiosis do not separate and instead they both move to the same pole

Karyotyping - ANSWER chromosomes are arranged in pairs according to their size. Performed using cells collected by chorionic villus sampling for prenatal diagnosis of chromosome abnormalities.

Prophase I - ANSWER Chromosome supercoil, homologous chromosomes (bivalents) pair up (synapsis), crossing over occurs resulting in chiasma, centrioles move to opposite poles in animal cells and the nuclear membrane breaks down.

Biology Genetics Questions And Answers

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Biology Genetics Questions And Answers:

Biology Genetics Questions And Answers Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Biology Genetics Questions And Answers**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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