

BIOLOGY: Spring (APEX) Final Exam Review - 2021 - Unit 7

Directions: Write summary statements or definitions for each of the following terms or concepts. Use this as a gauge of how much you already know and what you still need to study. This review should guide your studying. not limit it!

Write your answers in RED or another color. NOT BLACK.

Apex Unit 7

27. What is crossing over? **the exchange of genes between homologous chromosomes, resulting in a mixture of parental characteristics in offspring.**
28. How does meiosis contribute to genetic variation? **Genetic variation is increased by meiosis**
29. What are three ways we increase genetic variation during meiosis? **We have seen that meiosis creates variation three ways: crossing over, mutations caused during crossing over, and independent assortment.**
30. What is nondisjunction? What does it result in? **Nondisjunction is the failure of homologous chromosomes or sister chromatids to separate properly during cell division.**
31. When does independent assortment happen during meiosis? **When cells divide during meiosis, homologous chromosomes are randomly distributed during anaphase**
32. Difference between a haploid cell and diploid cell? **Haploid cells are those that have only a single set of chromosomes while diploid cells have two sets of chromosomes.**
33. Distinguish between genotype and phenotype? **A genotype refers to the genetic characteristics of an organism. A phenotype refers to the physical characteristics.**
34. How are dominant and recessive alleles different? **Dominant refers to the relationship between two versions of a gene. Individuals receive two versions of each gene, known as alleles, from each parent.**
35. To have a dominant trait how many alleles must a person have? (if it is a single gene trait) **two alleles**
36. Pea plants – why did Mendel use this type of plant? What were his experiments about? **By experimenting with true-breeding pea plants, Mendel avoided the appearance of unexpected traits in offspring that might occur if the plants were not true breeding.**
37. Distinguish between heterozygous/hybrid **A hybrid organism is one that is heterozygous, which means that it carries two different alleles at a particular genetic position, or locus. Therefore, a dihybrid organism is one that is heterozygous at two different genetic loci.**
38. Distinguish between homozygous **homozygous** and heterozygous **and** explain **what the words mean**
39. Cross a plant heterozygous for green pea color with a plant that is heterozygous for yellow pea color. Predict the outcomes of the offspring. **25% of the heterozygous seeds are green, and the offspring of a heterozygous seed and a green seed will always display the dominant trait (greenness), because they are heterozygous.**
40. If a plant is heterozygous for green peas and purple flowers, what is the genotype of the plant? Write the genetic contribution for the plant. **The phenotype of the heterozygous plant is green peas.**
41. Why do half of your 25% offspring come from each parent? **Each gamete is inherited from your parents, half from your mother and half from your father.**
42. What is the genetic basis for Mendel's Law of Independent Assortment and segregation? **The physical basis of Mendel's law of segregation is the fact that one of a pair of alleles in which the heterozygous individuals with their different versions of each gene are segregated into daughter nuclei.**
43. How many dominant alleles does one have to express an autosomal dominant disorder? **1**
44. If a person is heterozygous for an allele and has the disorder, is the disorder recessive allele disorder or a dominant allele disorder? **Recessive heterozygous are not affected.**
45. What is a "carrier," in genetics terms? **an individual who carries one deleterious allele for an autosomal recessive disorder**
46. What does it mean to be sex-linked? **sex is which a gene is located on a sex chromosome**
 - the allele is on the same genetic position and their associated pedigree.
 - A female carrier for color blindness carries a normal allele. What is the probability that their son will be colorblind? **their son will have 50% chance**
47. Why are sex-linked disorders more common in males than females? **because females have two copies of the X chromosome and males have only one X chromosome**

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Thomas R. Cech



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