

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/purebred A true-called homozygous cell consists of gene pairs with identical alleles.
39. Cross a plant homozygous for green pea color with a plant that is heterozygous for yellow pea color. Predict the outcomes of the offspring. 50% of the heterozygous cross are dominant, and the offspring of a heterozygous dominant and homozygous dominant pea plant will always display the dominant trait (phenotype), because they are heterozygous.
40. If a plant is heterozygous for green pods and purple flowers, what is the genotype of the plant? Write the genetic contribution from the plant. The phenotype of the heterozygous plant is green pods.
41. Why do half of your DNA segments come from each parent? Your genome 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 two divisions of meiosis in which the homologous chromosomes with their different versions of each gene are segregated into daughter nuclei.
43. How many recessive alleles must you have to express an autosomal recessive disorder? 2
44. If a person is heterozygous for an allele and has the disorder, is the disorder recessive allele disorder or a dominant allele disorder? Because 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 to do some genetic problems and their associated pedigrees.
 - A female carrier for color blindness carries a normal allele. What is the probability that their son will be colorblind? Their sons 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.

Biology Spring Final Study Guide Answer

Horace Adelbert Hollister



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Table of Contents Biology Spring Final Study Guide Answer

1. Understanding the eBook Biology Spring Final Study Guide Answer
 - The Rise of Digital Reading Biology Spring Final Study Guide Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Spring Final Study Guide Answer
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biology Spring Final Study Guide Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Spring Final Study Guide Answer
 - Personalized Recommendations
 - Biology Spring Final Study Guide Answer User Reviews and Ratings
 - Biology Spring Final Study Guide Answer and Bestseller Lists
5. Accessing Biology Spring Final Study Guide Answer Free and Paid eBooks
 - Biology Spring Final Study Guide Answer Public Domain eBooks
 - Biology Spring Final Study Guide Answer eBook Subscription Services

- Biology Spring Final Study Guide Answer Budget-Friendly Options
- 6. Navigating Biology Spring Final Study Guide Answer eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Spring Final Study Guide Answer Compatibility with Devices
 - Biology Spring Final Study Guide Answer Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Spring Final Study Guide Answer
 - Highlighting and Note-Taking Biology Spring Final Study Guide Answer
 - Interactive Elements Biology Spring Final Study Guide Answer
- 8. Staying Engaged with Biology Spring Final Study Guide Answer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Spring Final Study Guide Answer
- 9. Balancing eBooks and Physical Books Biology Spring Final Study Guide Answer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Spring Final Study Guide Answer
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Biology Spring Final Study Guide Answer
 - Setting Reading Goals Biology Spring Final Study Guide Answer
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biology Spring Final Study Guide Answer
 - Fact-Checking eBook Content of Biology Spring Final Study Guide Answer
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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