

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.

Answers For Biology Spring Final Review

William W. Cressey



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Table of Contents Answers For Biology Spring Final Review

1. Understanding the eBook Answers For Biology Spring Final Review
 - The Rise of Digital Reading Answers For Biology Spring Final Review
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Biology Spring Final Review
 - 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 Answers For Biology Spring Final Review
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Biology Spring Final Review
 - Personalized Recommendations
 - Answers For Biology Spring Final Review User Reviews and Ratings
 - Answers For Biology Spring Final Review and Bestseller Lists
5. Accessing Answers For Biology Spring Final Review Free and Paid eBooks
 - Answers For Biology Spring Final Review Public Domain eBooks
 - Answers For Biology Spring Final Review eBook Subscription Services
 - Answers For Biology Spring Final Review Budget-Friendly Options
6. Navigating Answers For Biology Spring Final Review eBook Formats

- ePub, PDF, MOBI, and More
- Answers For Biology Spring Final Review Compatibility with Devices
- Answers For Biology Spring Final Review Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Biology Spring Final Review
 - Highlighting and Note-Taking Answers For Biology Spring Final Review
 - Interactive Elements Answers For Biology Spring Final Review
- 8. Staying Engaged with Answers For Biology Spring Final Review
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Biology Spring Final Review
- 9. Balancing eBooks and Physical Books Answers For Biology Spring Final Review
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Biology Spring Final Review
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers For Biology Spring Final Review
 - Setting Reading Goals Answers For Biology Spring Final Review
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers For Biology Spring Final Review
 - Fact-Checking eBook Content of Answers For Biology Spring Final Review
 - 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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insulated jacketed products be advised of the following non metallic coverings of electrical cables

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web note allowable ampacities are for general use as specified by canadian electrical code 2002 table 2 based on not more than 3 copper or aluminum conductors in raceway or cable

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web may 11 2023 table 57 referenced by rule 16 210 6 and table 5a provides allowable ampacities for class 2 copper conductors based on the size of the conductor and whether it is a single conductor in free air or not more than three copper conductors in raceway or cable and an ambient temperature of 30 degrees centigrade

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web table 1 and 3 ampacities for 2 to 4 single conductors table 5b tables 2 and 4 for more than 3 insulated conductors table 5c for vertical layers of insulated conductors in ventilated ladder type trays

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web may 1 2020 although as per 90 c column of table 2 the ampacity of such no 3 awg conductor is 115 a in accordance with provisions of rule 4 006 the ampacity of this conductor would be assigned based on 75 c column of

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