

## **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 Exam Study Guide Answers

**D Kirk**



## **Biology Spring Final Exam Study Guide Answers:**

*Annual Catalogue* United States Air Force Academy, 1984      United States Air Force Academy United States Air Force Academy,      Resources in Education , 1998      **Life, Learning, and Community** David C. Brubaker, Joel H.

Ostroff, 2023-07-03 This book represents the 18th of AAHE's series on service learning in the disciplines and focuses on service learning strategies and models in biology. Although there are obvious applications for service learning in such fields as nursing and teacher education, incorporating it into natural science courses has not always seemed practical to science instructors. This book not only provides strong arguments for using service learning in biology courses but also gives real life examples of how it has been successfully used in biology curricula.      **Oswaal NEET (UG) Mock Test 15 Sample**

**Question Papers+ 18 Years' Solved Papers-2006-2023 Physics, Chemistry, Biology (For 2024 Exam)** Oswaal Editorial Board, 2023-06-14 Benefits of the product 100% Updated with Fully Solved May 2023 Paper Extensive Practice with 3500 Previous Years Question Papers Crisp Revision with Mind Maps Mnemonics and Appendix Valuable Exam Insights with Expert Tips to Crack NEET Exam in the 1st attempt Concept Clarity with Extensive Explanations of NEET previous years papers 100% Exam Readiness with Chapter wise NEET Trend Analysis 2014-2023      **Who's the New Kid in Chemistry?**

John D. Butler, 2013-12-12 Who's the New Kid in Chemistry offers an unprecedented look at student engagement and teacher best practices through the eyes of an educational researcher enrolled as a public high school student. Over the course of seventy-nine consecutive days, John D. Butler participates in and observes Rhode Island 2013 Teacher of the Year Jessica M. Waters's high school chemistry class, documenting his experiences as they unfold. Who's the New Kid in Chemistry is a compelling example of what can be accomplished when an educational researcher and teacher collaborate in the classroom. This work includes a discussion on flexible homework assignments, data-driven instruction, and thirty teacher best practices. This book is an invaluable resource for teachers across all content areas, masters and doctoral research method classes, and future Teachers of the Year.      *My Revision Notes: OCR A Level Biology A* Frank Sochacki, 2017-01-16 Exam Board OCR

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