

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

United States Air Force Academy

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the United States Air Force Academy text.

Answers For Biology Spring Final Review:

Annual Catalogue United States Air Force Academy, 1985

Curriculum Handbook with General Information

Concerning ... for the United States Air Force Academy United States Air Force Academy, 1998 *United States Air Force Academy* United States Air Force Academy, 1985 *Cracking the AP Biology Exam* Kim Magloire, Princeton Review (Firm), 2004

This updated series by Princeton Review helps students pass the challenging Advance Placement Test with targeted study for each exam of the series Exam Made Easy V Rajeswari, M Kavitha, The Technical education in India is changing rapidly in the emerging fields to meet future challenges Newer areas like Bigdata and Datascience have become extended database subjects In this process UNIVERSITY has revised the syllabus for B E B Tech B Sc Computer Science BCS MCA to incorporate the latest developments in technology In view of this the book covers the latest revised syllabus of ANNA UNIVERSITY for the subject DATABASE MANAGEMENT SYSTEMS for the B E B Tech students BCA B Sc Computer Science MCA The book UNIVERSITY Q A for DATABASE MANAGEMENT SYSTEMS has been compiled for students studying at undergraduate level and covers almost all topics required to enhance the knowledge in Database Management Systems The book is organized in a way to help beginners in understanding the database concepts better This book owes its existence to the collaboration made possible by the Internet and the free software movements Salient features of this Book This book provides 500 multiple choice questions on Database Management Systems separated into 30 categories The questions have been used in examinations for undergraduate introductory courses and as such reflect the focus of these particular courses and are pitched at the level to challenge students that are beginning their training in Database Management Systems This book provides 200 Two Marks Questions and Answers 100 Sixteen Mark Questions and Previous year Question Papers

Reconceptualizing STEM Education Richard A. Duschl, Amber S. Bismack, 2016-01-08 *Reconceptualizing STEM Education* explores and maps out research and development ideas and issues around five central practice themes Systems Thinking Model Based Reasoning Quantitative Reasoning Equity Epistemic and Ethical Outcomes and STEM Communication and Outreach These themes are aligned with the comprehensive agenda for the reform of science and engineering education set out by the 2015 PISA Framework the US Next Generation Science Standards and the US National Research Council's A Framework for K 12 Science Education The new practice focused agenda has implications for the redesign of preK 12 education for alignment of curriculum instruction assessment STEM teacher education and professional development postsecondary further and graduate studies and out of school informal education In each section experts set out powerful ideas followed by two eminent discussant responses that both respond to and provoke additional ideas from the lead papers In the associated website highly distinguished nationally recognized STEM education scholars and policymakers engage in deep conversations and considerations addressing core practices that guide STEM education **COVID-19: Mid- and Long-Term Educational and Psychological Consequences for Students and Educators** Isabel Morales-Muñoz, Ricardo

Scott, Maria Jose Alvarez-Alonso, 2022-05-23 *GoTo Guide for AGNIVEER SENA Indian Army Clerk Exam with 15 Practice Sets* Disha Experts, Disha's Go To Guide for Agniveer Sena Indian Army Clerk with 15 Practice Sets has been prepared as per the latest pattern released by government in June 2022. The Book is a one-stop solution for the Indian Army Clerk. The Book is divided into 2 Parts: A Study Material, B 15 Practice Sets. Part A covers well-explained theory with practice exercises. Part A is divided into 5 Sections: I General Knowledge, II General Science, III Mathematics, IV Computer Science, V General English. More than 2500 questions for Practice with Hints. Solutions are provided. Part B provides 15 Practice Sets on the newly released pattern of 50 MCQs. The Book is strictly based on the syllabus defined by Agniveer notification. *Catalogue Number. Course Catalog* Anonymous, 2025-08-11. Reprint of the original first published in 1876. The Antigonos publishing house specialises in the publication of reprints of historical books. We make sure that these works are made available to the public in good condition in order to preserve their cultural heritage. *Marine Fisheries Review*, 1980.

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