

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.

Apex Biology Answers

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Apex Biology Answers:

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Immunobiology of the Shark Sylvia L. Smith,Robert B. Sim,Martin F. Flajnik,2014-12-04 Immunity studies in sharks over the past three decades have produced some remarkable discoveries If one message rings true it is that alternative animal model systems such as sharks and their relatives have contributed very substantially to a better understanding of the development evolution of our own immune system Immunobiology of the Shark describes the cellular genetic and molecular specifics of immune systems in sharks Diverse approaches were employed to study the immunobiology of the shark from basic microscopic observations to detailed genome annotation The book also raises a series of fascinating questions which can be addressed experimentally using today s technology This book will be a valuable resource for mainstream immunologists comparative immunologists geneticists ecologists evolutionary biologists and investigators engaged in shark research The book also aims to illustrate the magnificence of these animals as model systems and underscores the importance of their study to further understand their complex and often enigmatic biology *Kaplan SAT 2005* Kaplan, Inc,2004-06-22 Are you ready for the test A COMPLETE BREAKDOWN OF THE SAT Learn how to use the structure of the SAT to your advantage hone the skills and strategies required for each question type and understand the content covered by the test SAT MATH AND VERBAL TUTORIALS Focus your study with a comprehensive review of the 100 most important math concepts on the SAT exam plus tips on how to remember key vocabulary words CLEAR ANSWER EXPLANATIONS FOR EACH PRACTICE TEST Understand why an answer is right and the others are wrong Practice with 3 full length exams each with complete explanations for all answers and detailed score analysis INCREASE YOUR SCORE Maximize your score in the minimum amount of time using Kaplan s powerful test taking tips and strategies plus expert advice on dealing with stress guessing and more Boost your studying power Team up with friends to form an SAT Power Pack This book includes a study group guide to make your SAT prep more effective and more fun Visit kaptest com Kaptest com is your one stop resource for getting into college Get the latest information on the college admissions process study aids and much more Sign up for the College Edge our free newsletter Visit kaptest com today and get a head start on the rest of your life Concepts and Methods in Evolutionary Biology Robert N. Brandon,1996 This collection of Professor Brandon s recent essays covers all the traditional topics in the philosophy of evolutionary biology SAT Math Workbook ,2002 *Biology And Radiobiology Of Anucleate Systems* Silvano Bonotto,2012-12-02 Biology and Radiobiology of Anucleate Systems II Plant Cells encompasses the proceedings of International Symposium held in Mol June 21 23 1971 The symposium is organized by the Department of Radiobiology Centre d Etude de l Energie Nucleaire C E N S C K Mol Belgium under the auspices of the Commission of the European Communities EURATOM and of the Relations Culturelles Internationales Brussels The aim of the three day

symposium is to bring together for the first time scientists working on anucleate systems obtained from bacteria and animal or plant cells This volume is composed of 16 papers relating specifically to plant cells Each paper is organized according to the date and session when they have been presented This book will provide invaluable data for comparing the properties of anucleate Acetabularia with those of other anucleate cells which would be very useful for better understanding of many problems concerning the nucleocytoplasmic relationships and cellular differentiation in normal and irradiated cells *On Human Nature* Armin Grunwald, Matthias Gutmann, Eva M. Neumann-Held, 2013-04-17 Modern molecular technology in the so called life sciences biology as well as medicine allows today to approach and manipulate living beings in ways and to an extent which not too long ago seemed Utopian The empirical progress promises further and even more radical developments in the future and it is at least often claimed that this kind of research will have tremendous effects on and for all of humanity for example in the areas of food production transplantation medicine including stem cell research and xenotransplantation therapeutic genetic manipulation and cell line cloning of cell lines or tissues and of biodiversity conservation strategies At least in Western industrialized countries the development of modern sciences led to a steady increase of human health well being and quality of life However with the move to make the human body itself an object of scientific research interests the respective scientific descriptions resulted in changes in the image that human beings have of themselves Scientific progress has led to a startling loss of traditional human self understanding This development is in contrast to an understanding according to which the question what it means to be human is treated in the realm of philosophy And indeed a closer look reveals that without denying the value of scientific progress science cannot replace the philosophical approach to anthropological questions **Vertebrate Palaeontology** Michael J. Benton, 2014-10-20 Vertebrate palaeontology is a lively field with new discoveries reported every week and not only dinosaurs This new edition reflects the international scope of vertebrate palaeontology with a special focus on exciting new finds from China A key aim is to explain the science Gone are the days of guesswork Young researchers use impressive new numerical and imaging methods to explore the tree of life macroevolution global change and functional morphology The fourth edition is completely revised The cladistic framework is strengthened and new functional and developmental spreads are added Study aids include key questions research to be done and recommendations of further reading and web sites The book is designed for palaeontology courses in biology and geology departments It is also aimed at enthusiasts who want to experience the flavour of how the research is done The book is strongly phylogenetic and this makes it a source of current data on vertebrate evolution Kaplan SAT II Kaplan, Inc, 2004-03-02 Are you ready for the SAT II Physics exam You will be Kaplan's SAT II Physics 2004 2005 Edition comes complete with a targeted review of all the material on the exam plus Kaplan's score increasing strategies This powerful combination will help you go into the test with confidence and come out with a higher score 4 Full Length Practice Tests with Detailed Answer Explanations The Most Up to Date Information on the Test Review of

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