

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.

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JE Gale



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Scientific and Technical Aerospace Reports ,1966 **Handbook of Research on Mobile Devices and Applications in Higher Education Settings** Briz-Ponce, Laura,Juanes-Méndez, Juan Antonio,García-Peñalvo, Francisco José,2016-07-13 Mobile phones have become an integral part of society as their convenience has helped democratize and revolutionize communication and the marketplace of ideas Because of their ubiquity in higher education undergraduate classrooms have begun to utilize smartphones and tablets as tools for learning The Handbook of Research on Mobile Devices and Applications in Higher Education Settings explores and fosters new perspectives on the use of mobile applications in a classroom context This timely publication will demonstrate the challenges that universities face when introducing new technologies to students and instructors as well as the rewards of doing so in a thoughtful manner This book is meant to present the latest research and become a source of inspiration for educators administrators researchers app developers and students of education and technology *Towards a Theory of Development* Alessandro Minelli,Thomas Pradeu,2014 This volume explores the foundations of ontogeny by asking how the development of living things should be understood It explores key concepts of developmental biology asks whether general principles of development can be discovered and what the role of models and theories is in developmental biology Hydrodynamics and Water Environment Characteristics in Coastal Areas under the Influences of Climate Change and Human Activities Sha Lou,Gangfeng Ma,Yi Pan,2023-05-09

Handbook of Research on Inequities in Online Education During Global Crises Kyei-Blankson, Lydia,Blankson, Joseph,Ntuli, Esther,2021-05-07 In response to the COVID 19 pandemic many educational institutions implemented social distancing interventions such as initiating closure developing plans for employees to work remotely and transitioning teaching and learning from face to face classrooms to online environments The abrupt switch to online teaching and learning for the most part has been a massive change for administration faculty and students at traditional brick and mortar universities and colleges as concerns regarding the pedagogical soundness of this mode of delivery remain among some stakeholders Not only that but the switch has also revealed the inequities in the system when it comes to the types of students universities serve It is important as institutions move forward with online instruction that consideration be made about all students and what policies and strategies need to be put into place to help support and meet the needs of all constituents now or when unprecedented situations arise The only way this can be done is by documenting the experiences through the eyes of faculty who were at the frontline of providing instruction and advising services to students The Handbook of Research on Inequities in Online Education During Global Crises brings to light the struggles faculty and students faced as they were required to switch to online education during the global COVID 19 health crisis This crisis has revealed inequities in the educational system as well as the specific effects of inequities when it comes to learning online and the chapters in this book provide information to help institutions be better prepared for online education or remote learning in the future While

highlighting topics such as new educational trends remote instruction diversity in education and teaching and learning in a pandemic this book is ideal for in service and preservice teachers administrators teacher educators practitioners stakeholders researchers academicians and students interested in the inequalities within the educational systems and the new policies and strategies put in place with online education to combat these issues and support the needs of all diverse student populations

Sea Ice David N. Thomas, 2017-03-06 Over the past 20 years the study of the frozen Arctic and Southern Oceans and sub arctic seas has progressed at a remarkable pace This third edition of Sea Ice gives insight into the very latest understanding of the how sea ice is formed how we measure and model its extent the biology that lives within and associated with sea ice and the effect of climate change on its distribution How sea ice influences the oceanography of underlying waters and the influences that sea ice has on humans living in Arctic regions are also discussed Featuring twelve new chapters this edition follows two previous editions 2001 and 2010 and the need for this latest update exhibits just how rapidly the science of sea ice is developing The 27 chapters are written by a team of more than 50 of the worlds leading experts in their fields These combine to make the book the most comprehensive introduction to the physics chemistry biology and geology of sea ice that there is This third edition of Sea Ice will be a key resource for all policy makers researchers and students who work with the frozen oceans and seas

Fungal Biotechnology Arshad Farid, Gagan Preet, 2025-09-11 This book presents diverse applications of fungi in medical pharmaceutical and environmental sciences It discusses the intricate processes involved in fungal metabolite production bioactive compound discovery and genetic engineering highlighting their critical roles in addressing global challenges such as chronic diseases drug development and environmental sustainability This book examines the growing importance of fungi in the biopharmaceutical industry including their use in immunotherapy vaccine development and precision medicine while also exploring the novel applications of fungal nanobiotechnology in drug delivery systems The chapters explore challenges in antifungal drug development and food safety particularly regarding mycotoxins and offer practical insights into diagnostic techniques for fungal infections This book also addresses the global regulatory standards for fungal products and the ethical considerations surrounding the advancement of fungal biotechnology

Practical Pharmaceutics Paul Le Brun, Sylvie Crauste-Manciet, Irene Krämer, Julian Smith, Herman Woerdenbag, 2023-06-15 Practical Pharmaceutics contains essential knowledge on the preparation quality control logistics dispensing and use of medicines It features chapters written by experienced pharmacists and scientists working in hospitals academia and industry throughout Europe including practical examples as well as information on current GMP and GMP based guidelines and EU legislation In this second edition all chapters have been updated with numerous new as well as didactically revised illustrations and tables A completely new chapter about therapeutic proteins and Advanced Therapy Medicinal Products was added From prescription to production from usage instructions to procurement and the impact of medicines on the environment the book provides step by step coverage that will help a wide range of readers students as well

as professionals It offers product knowledge for all pharmacists working directly with patients and it will enable them to make the required medicine available to store medicines properly to adapt medicines if necessary and to dispense medicines with the appropriate information for patients as well as caregivers about product care and how to maintain the quality of the product The basic knowledge presented in the book will also be valuable for industrial pharmacists to remind and focus them on the application of the medicines manufactured The basic and practical knowledge on the design preparation and quality management of medicines can directly be applied by the pharmacists whose main duty is production in community and hospital pharmacies and in industry Undergraduate as well as graduate pharmacy students will find knowledge presented in a coherent way and fully supported with relevant examples Practical Pharmaceutics has become a reliable and recognised source for the acquisition of pharmaceutical technological knowledge The book is used in the curriculum of a number of international universities and schools of Pharmacy

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Differentiated Instruction, Equity, and Inclusion in Language Education Tran, Thao Quoc,Duong, Tham My,2024-12-06 Embracing differentiated instruction equity and inclusion is pivotal for fostering a dynamic and enriching learning environment in language education Differentiated instruction acknowledges the diverse needs abilities and learning styles of students while advocating for equitable learning opportunities and approaches Ensuring equity and inclusion may assist educators in cultivating linguistic diversity throughout language education Differentiated Instruction Equity and Inclusion in Language Education explores methods to creating an equitable and inclusive language learning environment while maximizing learners potential It presents effective solutions to issues singular individual and collective learner approaches in the English language learning process while enhancing individual competencies This book covers topics such as curriculum development digital technology and language education and is a useful resource for educators policymakers psychologists sociologists academicians researchers and industry professionals

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