

# How to Pass the January, 2019 Living Environment Regents

Way #	Topic	Concept	Explanation
20	Immunity	<u>Vaccines</u>	a <b>dead/weakened pathogen</b> that stimulates an immune response (antibody production) do <b>NOT</b> write "a little bit of the disease" or a "small amount of the virus"

## Here, Eat This Vaccine

Munching on bacteria could be a good way to stimulate your immune system. Biologist Simon Cutting of the Royal Holloway University of London has transformed bacterial spores into an edible vaccine. He and his collaborators genetically altered the common bacterium *Bacillus subtilis* so that it produced harmless fragments of the toxin produced by tetanus. Then his team starved the bacterium so that it turned into a spore — a desiccated [dehydrated] packet tough enough to survive a trip through the digestive tract and into the bloodstream. Most of the mice that inhaled or ate the modified spores were then able to survive a lethal dose of tetanus.

"We selected tetanus because the immunology regarding this disease is well understood," Cutting says. But engineered bacteria could be similarly tailored to train the immune system to fight anthrax, traveler's diarrhea, and other illnesses. Edible vaccines would eliminate the need for needles and sterilizing equipment. Moreover, spores can withstand extreme heat and dryness, remaining viable [alive] for thousands of years. Cutting plans to start clinical trials in about two years. If the results measure up, spore vaccines could slash the cost of immunization programs, especially in poor countries where refrigeration is unreliable and transportation can be slow.

68 Describe *one* way the immune system could respond when it is exposed to the genetically altered *Bacillus subtilis*. [1]

68 [1] Allow 1 credit. Acceptable responses include, but are not limited to:

- The immune system may produce antibodies to fight the tetanus bacteria.
- The immune system may produce more white blood cells to fight the tetanus bacteria.

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# January 2014 Bio Regents

**Entomological Society of Washington**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the text 'Entomological Society of Washington'.

## **January 2014 Bio Regents:**

**Governing Intellectual Property Rights Within Publicly Funded Biobanks** Rajam Neethu, 2019-06-21 Governing Intellectual Property Rights Within Publicly Funded Biobanks R Neethu The boom in biobanks and health databases as research infrastructures have evoked various legal and ethical debates Since then numerous new developments have emerged such as digitalization big data research and artificial intelligence which has important implications for biobank based research and collaborations This new paradigm offers new legal challenges for commercial involvement particularly within a publicly funded setting In this innovative book the author shows that securing maximum social benefit out of the knowledge emanating from the use of biobank resources lies in managing intellectual property inputs and outputs effectively in keeping with the values core to such research Focusing on the challenges of involving intellectual property rights IPRs particularly in the precompetitive phase of biobank based research the book offers an extensive understanding of the role of different IPRs and identifies the gaps in the law and its implications for biobanks The analysis covers important aspects in relation to biobanks such as Digital integration and biomedical data storage Ownership of biological samples Commercialization and benefit sharing Partnership models Public sector research Disposition of samples Consent Cross border exchange Trade secrecy Privacy Regulatory stewardship Business strategies Ethical considerations over biological resources Patenting of inventions relating to personalized medicine Ethical parameters within patent law and Rights regarding genetic data and databases The book includes observations case studies and interviews conducted by the author In conclusion the author offers cogent recommendations for legal interoperability of IP rules and research practices designed to enhance the ability of biobanks to share access and reuse data This book is the first of its kind to explore the organizational and legislative choices for biobanks particularly while engaging in the protection of research results and technology transfer within a publicly funded setting It will be of substantial interest to all stakeholders in biobanking especially policymakers biobankers and researchers working in the field of health law as well as for legal practitioners academics and patient interest groups

**Meeting the Challenges to Measurement in an Era of Accountability** Henry Braun, 2016-01-29 Under pressure and support from the federal government states have increasingly turned to indicators based on student test scores to evaluate teachers and schools as well as students themselves The focus thus far has been on test scores in those subject areas where there is a sequence of consecutive tests such as in mathematics or English language arts with a focus on grades 4-8 Teachers in these subject areas however constitute less than thirty percent of the teacher workforce in a district Comparatively little has been written about the measurement of achievement in the other grades and subjects This volume seeks to remedy this imbalance by focusing on the assessment of student achievement in a broad range of grade levels and subject areas with particular attention to their use in the evaluation of teachers and schools in all It addresses traditional end of course tests as well as alternative measures such as portfolios exhibitions and student learning objectives In each case

issues related to design and development psychometric considerations and validity challenges are covered from both a generic and a content specific perspective The NCME Applications of Educational Measurement and Assessment series includes edited volumes designed to inform research based applications of educational measurement and assessment Edited by leading experts these books are comprehensive and practical resources on the latest developments in the field The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

**Butterfly Biology Systems** Roger L.H. Dennis, 2020-10-07 In *Butterfly Biology Systems* Roger Dennis explores key topics and contentious issues in butterfly biology specifically those in life history and behaviour Uniquely using a systems approach the book focuses on the degree of integration and feedback between components and elements affecting each issue as well as the links between different issues The book comprises four sections The first two sections introduce the reader to principles and approaches for investigating complex relationships and provide a platform of knowledge on butterfly biology The final two sections deal in turn with life history and behaviour covering key issues affecting different stages of development from eggs to adults

**Kangaroo Court** Don Brown, 2024-11-06 *Kangaroo Court* How Dirty Prosecutors and Sleazy Lawyers Destroy Political Opponents Attack Free Speech and Subvert the Constitution unveils the dangerous and growing trend of political prosecution in America From Alvin Bragg to Jack Smith from Fani Willis to Letitia James to Kim Gardner author Don Brown exposes how rogue prosecutors in politically charged jurisdictions have weaponized the legal system to punish dissent silence opposition and erode constitutional rights In a time when the American judicial system is under siege by leftists and a weaponized Department of Justice *Kangaroo Court* dives into over twenty politically motivated cases from the exonerations of Tom DeLay Bob McDonnell and Rick Perry to the wrongful imprisonment of Trump supporters including Steve Bannon and Peter Navarro These cases underscore the need for rogue prosecutor laws to prevent further abuse of power and protect the integrity of our republic As the 2024 presidential election looms the political prosecutions of Donald Trump across four jurisdictions are not just a threat to one man they are an attack on the United States Constitution and freedom of speech It's time to hold corrupt prosecutors accountable and restore justice to our judicial system It's time to prosecute the prosecutors

**Numerical Methods and Advanced Simulation in Biomechanics and Biological Processes** Miguel Cerrolaza, Sandra Shefelbine, Diego Garzón-Alvarado, 2017-12-28 *Numerical Methods and Advanced Simulation in Biomechanics and Biological Processes* covers new and exciting modeling methods to help bioengineers tackle problems for which the Finite Element Method is not appropriate The book covers a wide range of important subjects in the field of numerical methods applied to biomechanics including bone biomechanics tissue and cell mechanics 3D printing computer assisted surgery and fluid dynamics Modeling strategies technology and approaches are continuously evolving as the knowledge of biological processes increases Both theory and applications are covered making this an ideal book for researchers students and R D professionals Provides non

conventional analysis methods for modeling Covers the Discrete Element Method DEM Particle Methods PM MeshLess and MeshFree Methods MLMF Agent Based Methods ABM Lattice Boltzmann Methods LBM and Boundary Integral Methods BIM Includes contributions from several world renowned experts in their fields Compares pros and cons of each method to help you decide which method is most applicable to solving specific problems **You** William B. Irvine,2018-09-07 You are many things including a person a member of a species a collection of cells a collection of atoms and a gene replication machine In You A Natural History William B Irvine explores your many identities and describes the remarkable series of events that led you to possess them **Transactions of the Kansas Academy of Science** Kansas Academy of Science,2013

**Biological Abstracts** Jacob Richard Schramm,1927 **Meeting of Board of Regents** University of Michigan. Board of Regents,2009-10 *KSU Ag Report* ,2014 **Proceedings of the Entomological Society of Washington** Entomological Society of Washington,2016 List of members in v 1 3 5 14 *Mergent Municipal & Government Manual* ,2000 **Athenæum and Literary Chronicle** James Silk Buckingham,John Sterling,Frederick Denison Maurice,Henry Stebbing,Charles Wentworth Dilke,Thomas Kibble Hervey,William Hepworth Dixon,Norman Maccoll,Vernon Horace Rendall,John Middleton Murry,1913 *Who's who in America* ,1912 **California Agriculture** ,2016 *The Athenaeum* ,1913 University of California Union Catalog of Monographs Cataloged by the Nine Campuses from 1963 Through 1967: Authors & titles University of California (System). Institute of Library Research,University of California, Berkeley,1972 **Wallace's Farmer** ,2015 *Biochemistry at Iowa* University of Iowa. Department of Biochemistry,2002 **Session Laws of the State of Minnesota** Minnesota,2014 Includes regular and extra sessions some extra sessions issued as separate vols

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