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EDUCATION

MID YEAR EXAMS

GRADE 11

JUNE 2023

PHYSICAL SCIENCES P2

MARKS: 50

TIME: 1 HOURS

EXAMINER: MR ML KEPU

Physical Science Exemplar June 2014

Marc H. V. Van Regenmortel



Physical Science Exemplar June 2014:

Applied Mathematics Susmita Sarkar, Uma Basu, Soumen De, 2015-10-13 The book is based on research presentations at the international conference Emerging Trends in Applied Mathematics In the Memory of Sir Asutosh Mookerjee S N Bose M N Saha and N R Sen held at the Department of Applied Mathematics University of Calcutta during 12-14 February 2014. It focuses on various emerging and challenging topics in the field of applied mathematics and theoretical physics. The book will be a valuable resource for postgraduate students at higher levels and researchers in applied mathematics and theoretical physics. Researchers presented a wide variety of themes in applied mathematics and theoretical physics such as emergent periodicity in a field of chaos, Ricci flow equation and Poincaré conjecture, Bose-Einstein condensation, geometry of local scale invariance and turbulence, statistical mechanics of human resource allocation, mathematical modelling of job matching in labour markets, contact problem in elasticity, the Saha equation, computational fluid dynamics with applications in aerospace problems, an introduction to data assimilation, stochastic analysis and bounds on noise for Holling type II model, graph theoretical invariants of chemical and biological systems, strongly correlated phases and quantum phase transitions of ultra-cold bosons and the mathematical modelling of breast cancer treatment.

Paradigm Changes Are Required in HIV Vaccine Research Marc H. V. Van Regenmortel, 2015-12-08 In his 1962 book *The Structure of Scientific Revolutions* Thomas Kuhn famously argued that researchers in every field of scientific enquiry always operate under a set of presuppositions known as paradigms that are rarely explicitly stated. In the field of HIV vaccine research, several prevailing paradigms led scientists for many years to pursue unfruitful lines of investigations that impeded significant progress. The uncritical acceptance of reigning paradigms makes scientists reluctant to abandon their mistaken assumptions even when they obtain results that are not consistent with the paradigms. The following five paradigms which disregard the degeneracy of the immune system were particularly harmful:

1. There is a primary and intrinsic epitope specific for each B cell receptor and for the corresponding monoclonal antibody. In reality, there is no single intrinsic or real epitope for any antibody but only a diverse group of potential ligands.
2. Reactions with monoclonal antibodies are more specific than the combined reactivity of polyclonal antibodies. In reality, a polyclonal antiserum has greater specificity for a multi-epitopic protein because different antibodies in the antiserum recognize separate epitopes on the same protein, giving rise to an additive specificity effect. By focusing vaccine design on single epitope Mab pairs, the beneficial neutralizing synergy that occurs with polyclonal antibody responses is overlooked.
3. The HIV epitope identified by solving the crystallographic structure of a broadly neutralizing Mab HIV Env complex should be able, when used as immunogen, to elicit antibodies endowed with the same neutralizing capacity as the Mab. Since every anti-HIV bnMab is polyspecific, the single epitope identified in the complex is not necessarily the one that elicited the bnMab. Since hypermutated Mabs used in crystallographic studies differ from their germline-like receptor version present before somatic hypermutation, the identified epitope will not be an effective vaccine immunogen.
4. Effective vaccine

immunogenicity can be predicted from the antigenic binding capacity of viral epitopes Most fragments of a viral antigen can induce antibodies that react with the immunogen but this is irrelevant for vaccination since these antibodies rarely recognize the cognate intact antigen and even more rarely neutralize the infectivity of the viral pathogen that harbors the antigen 5 The rational design of vaccine immunogens using reverse vaccinology is superior to the trial and error screening of vaccine candidates able to induce protective immunity One epitope can be designed to increase its structural complementarity to one particular bnMab but such antigen design is only masquerading as immunogen design because it is assumed that antigenic reactivity necessarily entails the immunogenic capacity to elicit neutralizing antibodies When HIV Env epitopes engineered to react with a bnMab are used to select from human donors rare memory B cells secreting bnAbs this represents antigen design and not immunogen design The aim of this Research Topic is to replace previous misleading paradigms by novel ones that better fit our current understanding of immunological specificity and will help HIV vaccine development Quantum Electrodynamics of Photosynthesis Artur Braun,2020-10-12 This book uses an array of different approaches to describe photosynthesis ranging from the subjectivity of human perception to the mathematical rigour of quantum electrodynamics This interdisciplinary work draws from fields as diverse as astronomy agriculture classical and quantum optics and biology in order to explain the working principles of photosynthesis in plants and cyanobacteria **High-Performance Bolting Technology for Offshore Oil and Natural Gas Operations** National Academies of Sciences, Engineering, and Medicine,National Academy of Engineering,Division on Engineering and Physical Sciences,National Materials and Manufacturing Board,Committee on Connector Reliability for Offshore Oil and Natural Gas Operations,2018-06-12 Commercially significant amounts of crude oil and natural gas lie under the continental shelf of the United States Advances in locating deposits and improvements in drilling and recovery technology have made it technically and economically feasible to extract these resources under harsh conditions But extracting these offshore petroleum resources involves the possibility however remote of oil spills with resulting damage to the ocean and the coastline ecosystems and risks to life and limb of those performing the extraction The environmental consequences of an oil spill can be more severe underwater than on land because sea currents can quickly disperse the oil over a large area and thus cleanup can be problematic Bolted connections are an integral feature of deep water well operations High Performance Bolting Technology for Offshore Oil and Natural Gas Operations summarizes strategies for improving the reliability of fasteners used in offshore oil exploration equipment as well as best practices from other industrial sectors It focuses on critical bolting bolts studs nuts and fasteners used on critical connections Cognitive Linguistics - Foundations of Language Ewa Dąbrowska,Dagmar Divjak,2019-07-08 Cognitive foundations of language introduces the reader to the abilities and processes in which research in Cognitive Linguistics is grounded The book looks at key concepts such as embodiment salience entrenchment construal categorization and collaborative communication and discusses their genesis and implications for cognitive linguistic research **Handbook of**

Cognitive Linguistics Ewa Dabrowska,Dagmar Divjak,2015-05-19 Cognitive Linguistics is an approach to language study based on the assumptions that our linguistic abilities are firmly rooted in our cognitive abilities that meaning is essentially conceptualization and that grammar is shaped by usage The Handbook of Cognitive Linguistics provides state of the art overviews of the numerous subfields of cognitive linguistics written by leading international experts which will be useful for established researchers and novices alike It is an interdisciplinary project with contributions from linguists psycholinguists psychologists and computer scientists which will emphasise the most recent developments in the field in particular the shift towards more empirically based research In this way it will we hope help to shape the field encouraging methodologically more rigorous research which incorporates insights from all the cognitive sciences Editor Ewa Dabrowska was awarded the Alexander von Humboldt Professorship 2018

Concepts for Nursing Practice E-Book Jean Foret Giddens,2019-11-22 Learn the core concepts of nursing care and apply them to the clinical setting Concepts for Nursing Practice 3rd Edition uses a simplified intuitive approach to describe 57 important concepts relating to all areas of nursing practice For easier understanding this book also makes connections among related concepts and links you to other nursing textbooks Exemplars for each concept provide useful examples and models showing how concepts are successfully applied to practice New to this edition are updated research evidence and a new Population Health concept Written by conceptual learning expert Jean Giddens this text will help you build clinical reasoning skills and prepare confidently for almost any clinical nursing situation Authoritative content written by expert contributors and meticulously edited by concept based learning expert Jean Giddens sets the standard for the rapidly growing concept based curriculum movement A total of 57 important nursing concepts are clearly defined and analyzed spanning the areas of patient physiology patient behavior and the professional nursing environment Case studies in each chapter make it easier to apply knowledge of nursing concepts to real world situations UNIQUE Featured Exemplars sections describe selected exemplars related to each nursing concept covering the entire lifespan and all clinical settings and help you assimilate concepts into practice UNIQUE Logical framework of concepts by units and themes helps you form immediate connections among related concepts a key to conceptual learning UNIQUE Interrelated Concepts illustrations provide visual cues to understanding and help you make connections across concepts NEW UPDATED content reflects the latest research evidence and national and international practice guidelines NEW Population Health concept reflects the future of nursing in which health care organizations learn to deliver care that is high in quality patient centered cost effective and evidence based NEW Featured Exemplars sections provide a brief explanation of some of the most important exemplars NEW Discussion questions in case studies reinforce your understanding of each concept NEW UPDATED exemplar links connect you to concept exemplars in other RN and LPN LVN level Elsevier nursing titles

Psychological perspectives on expertise Guillermo Campitelli,Michael H Connors, Merim Bilalić,David Zachary Hambrick,2015-05-19 Experts are persons who are very knowledgeable about or skillful in a particular area The aim of this

Research Topic is to advance knowledge in the understanding of the phenomenon of expertise by putting together different lines of research that directly or indirectly study expertise Herbert Simon's expertise studies initiated two lines of research One is interested in elucidating the cognitive processes underlying expertise and the other investigates how expertise develops These lines of research started with studies comparing experts and novices in chess and then they extended to numerous areas of expertise such as music medical diagnosis sports arts and sciences In the field of judgment and decision making researchers investigate the quality of judgments and decisions of experts in different professions e.g. clinical psychologists medical practitioners judges meteorologists stock brokers Those lines of research explicitly investigate the topic of expertise but there are other research areas that make a substantial contribution to understanding expertise Scholars in language acquisition and in face perception for example investigate cognitive processes and development of expertise in areas in which almost everyone becomes an expert Furthermore skill acquisition research informs in detail about short term cognitive changes that may be important to understand how expertise develops We are interested in original research that advances knowledge in the understanding of decision making cognitive processes and development of expertise in sports intellectual games arts scientific disciplines and professions as well as expertise in cognitive abilities such as perception memory attention language and imagery We are also interested in theoretical articles in any of these areas articles that describe computational or mathematical models of expertise and articles offering a framework that would guide expertise research Articles that offer integrative approaches of some of the areas described above are strongly encouraged The goal of this Research Topic is to produce a hallmark piece of work in the field of expertise which complements and does not overlap with the Neural implementations of expertise Research Topic in Frontiers in Human Neuroscience

Psychoanalytical neuroscience: Exploring psychoanalytic concepts with neuroscientific methods Nikolai Axmacher, Henrik Kessler, Gerd Thomas Waldhauser, 2015-01-09 Sigmund Freud was a trained neuroanatomist and wrote his first psychoanalytical theory in neuroscientific terms Throughout his life he maintained the belief that at some distant day in the future all psychoanalytic processes could be tied to a neural basis We must recollect that all of our provisional ideas in psychology will presumably one day be based on an organic substructure Freud 1914 On Narcissism An Introduction Fundamental Freudian concepts reveal their foundation in the physiological science of his time most importantly among them the concept of libidinous energy and the homeostatic principle of constancy However the subsequent history of psychoanalysis and neuroscience was mainly characterized by mutual ignorance or even opposition many scientists accused psychoanalytic viewpoints not to be scientifically testable and many psychoanalysts claimed that their theories did not need empirical support outside of the therapeutic situation On this historical background it may appear surprising that the recent years have seen an increasing interest in re-connecting psychoanalysis and neuroscience in various ways By studying psychodynamic consequences of brain lesions in neurological patients by investigating how psychoanalytic therapy affects

brain structure and function or even by operationalizing psychoanalytic concepts in well controlled experiments and exploring their neural correlates These empirical studies are accompanied by theoretical work on the philosophical status of the neuropsychanalytic endeavour In this volume we attempt to provide a state of the art overview of this new exciting field All types of submissions are welcome including research in patient populations healthy human participants and animals review articles on some empirical or theoretical aspect and of course also critical accounts of the new field Despite this welcome variability we would like to suggest that all contributions attempt to address one or both of two main questions which should motivate the connection between psychoanalysis and neuroscience and that in our opinion still remain exigent First from the neuroscientific side why should researchers in the neurosciences address psychoanalytic ideas and what is or will be the impact of this connection on current neuroscientific theories Second from the psychoanalytic side why should psychoanalysts care about neuroscientific studies and how can current psychoanalytical theory and practice benefit from their results Of course contributors are free to provide a critical viewpoint on these two questions as well

Big Scientific Data Benchmarks, Architecture, and Systems Rui Ren, Chen Zheng, Jianfeng Zhan, 2019-01-11 This book constitutes the refereed proceedings of the First Workshop on Big Scientific Data Benchmarks Architecture and Systems SDBA 2018 held in Beijing China in June 2018 The 10 revised full papers presented were carefully reviewed and selected from 22 submissions The papers are organized in topical sections on benchmarking performance optimization algorithms big science data framework

Towards an embodied science of intersubjectivity: Widening the scope of social understanding research Ezequiel Di Paolo, Hanne De Jaegher, 2015-06-16 An important amount of research effort in psychology and neuroscience over the past decades has focused on the problem of social cognition This problem is understood as how we figure out other minds relying only on indirect manifestations of other people's intentional states which are assumed to be hidden private and internal Research on this question has mostly investigated how individual cognitive mechanisms achieve this task A shift in the internalist assumptions regarding intentional states has expanded the research focus with hypotheses that explore the role of interactive phenomena and interpersonal histories and their implications for understanding individual cognitive processes This interactive expansion of the conceptual and methodological toolkit for investigating social cognition we now propose can be followed by an expansion into wider and deeply related research questions beyond but including that of social cognition narrowly construed Our social lives are populated by different kinds of cognitive and affective phenomena that are related to but not exhausted by the question of how we figure out other minds These phenomena include acting and perceiving together verbal and non verbal engagement experiences of disconnection management of relations in a group joint meaning making intimacy trust conflict negotiation asymmetric relations material mediation of social interaction collective action contextual engagement with socio cultural norms structures and roles etc These phenomena are often characterized by a strong participation by the cognitive agent in contrast with the spectatorial stance typical of social

cognition research We use the broader notion of embodied intersubjectivity to refer to this wider set of phenomena This Research Topic aims to investigate relations between these different issues to help lay strong foundations for a science of intersubjectivity the social mind writ large To contribute to this goal we encouraged contributions in psychology neuroscience psychopathology philosophy and cognitive science that address this wider scope of intersubjectivity by extending the range of explanatory factors from purely individual to interactive from observational to participatory

Social Robots from a Human Perspective Jane Vincent, Sakari Taipale, Bartolomeo Sapio, Giuseppe Lugano, Leopoldina Fortunati, 2015-05-08 This book presents a comprehensive overview of the human dimension of social robots by discussing both transnational features and national peculiarities Addressing several issues that explore the human side of social robots this book investigates what a social robot is and how we might come to think about social robots in the different areas of everyday life Organized around three sections that deal with Perceptions and Attitudes to Social Robots Human Interaction with Social Robots and Social Robots in Everyday Life it explores the idea that even if the challenges of robot technologies can be overcome from a technological perspective the question remains as to what kind of machine we want to have and use in our daily lives Lessons learned from previous widely adopted technologies such as smartphones indicate that robot technologies could potentially be absorbed into the everyday lives of humans in such a way that it is the human that determines the human machine interaction In a similar way to how today's information and communication technologies were initially designed for professional industrial use but were soon commercialized for the mass market and then personalized by humans in the course of daily practice the use of social robots is now facing the same revolution of domestication In the context of this transformation which involves the profound embedding of robots in everyday life the human aspect of social robots will play a major part This book sheds new light on this highly topical issue one of the central subjects that will be taught and studied at universities worldwide and that will be discussed widely publicly and repeatedly in the near future

Sport Development in the United States Peter Smolianov, Dwight Zakus, Joseph Gallo, 2014-09-15 The development of both elite high performance sport and mass participation grassroots level sport are central concerns for governments and sports governing bodies This important new study is the first to closely examine the challenges and opportunities for sports development in the United States a global sporting giant with a unique market driven sporting landscape Presenting an innovative model of integrated sports development the book explores the inter relationship between elite and mass sport across history drawing on comparative international examples from Australia to the former USSR and Eastern bloc countries At the heart of the book is an in depth empirical study of three traditional and emerging sports in the US tennis soccer and rugby that offer important lessons on the development of elite sport methods for increasing participation and the establishment of new sports in new markets No other book has attempted to model sports development in the United States in such depth before Therefore this should be essential reading for all students researchers

administrators or policy makers with an interest in sports development sports management sports policy or comparative international sport studies

Investing in Health and Wellbeing Christopher Dye, 2024-09-17 The proverbial benefits of prevention over cure are self evident and yet we are reluctant to invest in protecting and improving our health Resolution of this age old dilemma begins with a timeless truth the benefits of good health come at a cost prevention is not better than cure at any price Protecting health should be appealing when a high risk high value hazard can be averted rapidly with certainty and at relatively low cost Similar reasoning applies when the goal is to make health gains not merely to avoid health losses Health choices are rational based on values that are personal Investing in Health and Wellbeing When Prevention Is Better than Cure Second Edition provides a framework to promote and protect health as an asset illustrating the principles with practical examples Application of these ideas helps to explain why prevention is a low priority for health services why the world was not ready for the COVID 19 pandemic why deadly infections like tuberculosis are neglected why cigarette smoking is still commonplace why billions still do not have access to safe sanitation and why the response to climate change has been so slow Much more money and effort are invested in health promotion and disease prevention today than is commonly thought but the enormous avoidable burden of illness is reason to look for ways of investing still more Previously published as The Great Health Dilemma ISBN 9780198853824 in 2021 this second updated edition makes prevention part of a broader vision for better health This is an open access title available under the terms of a CC BY NC ND 4 0 International licence It is free to read on the Oxford Academic platform and offered as a free PDF download from OUP and selected open access locations

Contemporary Curriculum John D. McNeil, 2014-11-17 The Eighth Edition of Contemporary Curriculum In Thought and Action prepares readers to participate in the discussion of curriculum control and other matters important to K 12 and university educators The text highlights major philosophies and principles examines conflicting conceptions of curriculum and provides the intellectual and technical tools educators and administrators need for constructing and implementing curriculum

Forensic Podiatry Denis Wesley Vernon, John A. DiMaggio, 2017-06-01 Forensic Podiatry Principles and Methods Second Edition has been completely updated to reflect the latest developments and advancements in this changing field New additions to the book from the previous edition include all new chapters on the expert witness Frye Test and Daubert Standard as well as revised theories on gait analysis bare footprint identification and footwear examination The new edition includes extensive case studies and an international compilation of current best practices Since this text s first publication the field of forensic podiatry has rapidly developed from relative obscurity to a dynamic internationally recognized discipline Forensic podiatrists have been able to advance improvements in the field both in widening the range of applications and deepening the practice through improved techniques to strengthen evidentiary conclusions Written by two pioneers in the field Forensic Podiatry includes over one hundred detailed illustrations to serve as an invaluable resource for students practicing forensic podiatrists legal professionals and those new to the profession

Climate Change and Cities Cynthia Rosenzweig, William D. Solecki, Patricia Romero-Lankao, Shagun

Mehrotra, Shobhakar Dhakal, Somayya Ali Ibrahim, 2018-03-29 The Urban Climate Change Research Network's Second Assessment Report on Climate Change in Cities ARC3 2 is the second in a series of global science based reports to examine climate risk adaptation and mitigation efforts in cities The book explicitly seeks to explore the implications of changing climatic conditions on critical urban physical and social infrastructure sectors and intersectoral concerns The primary purpose of ARC3 2 is to inform the development and implementation of effective urban climate change policies leveraging ongoing and planned investments for populations in cities of developing emerging and developed countries This volume like its predecessor will be invaluable for a range of audiences involved with climate change and cities mayors city officials and policymakers urban planners policymakers charged with developing climate change mitigation and adaptation programs and a broad spectrum of researchers and advanced students in the environmental sciences The Uncanny Valley Hypothesis and Beyond Marcus Cheetham, 2018-05-02 A field of theory and research is evolving around the question highlighted in the Uncanny Valley Hypothesis How does high realism in anthropomorphic design influence human experience and behaviour The Uncanny Valley Hypothesis posits that a very humanlike character or object e g robot prosthetic limb doll can evoke a negative affective i e uncanny state Recent advances in robotic and computer graphic technologies in simulating aspects of human appearance behaviour and interaction have been accompanied therefore by theorising and research on the meaning and relevance of the Uncanny Valley Hypothesis for anthropomorphic design Current understanding of the uncanny idea is still fragmentary and further original research is needed However the emerging picture indicates that the relationship between humanlike realism and subjective experience and behaviour may not be as straightforward as the Uncanny Valley Hypothesis suggests This Research Topic brings together researchers from traditionally separate domains including robotics computer graphics cognitive science psychology and neuroscience to provide a snapshot of current work in this field A diversity of issues and questions are addressed in contributions that include original research review theory and opinion papers Annual Report India. Department of School Education & Literacy, 2014 Implementation Science Per Nilsen, 2024-05-13 This core textbook introduces the key concepts theories models and frameworks used in implementation science and supports readers applying them in research projects The first part of the book focuses on the theory of implementation science providing a discussion of its emergence from the evidence based practice movement and its connections to related topics such as innovation research It includes chapters looking at a wide range of theories methods and frameworks currently used in implementation science and a chapter focusing on suitable theories that could be imported from other fields The first part also addresses strategies and outcomes of implementation and discusses how researchers can build causal pathways adapted to their study The second part of the book focuses squarely on putting the theory of implementation science to work in practice with chapters discussing research methods used in the field and how to select the

most appropriate approach This section also features several chapters presenting in depth case studies of specific applications This multidisciplinary text is an essential resource for graduate students from a range of healthcare backgrounds taking courses on implementation science as well as researchers from medicine nursing public health allied health economics political science sociology and engineering

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