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MID YEAR EXAMS

GRADE 11

JUNE 2023

PHYSICAL SCIENCES P2

MARKS: 50

TIME: 1 HOURS

EXAMINER: MR ML KEPU

Physical Science Exemplar June 2014

**Guillermo Campitelli, Michael H
Connors, Merim Bilalić, David Zachary
Hambrick**



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

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