

MID YEAR EXAMS

GRADE 11

JUNE 2023

PHYSICAL SCIENCES P2

MARKS: 50

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PHYSICAL SCIENCES GRADE 11 P2 JUNE 2023

Physical Science Exemplar June 2014

Nikolai Axmacher, Henrik Kessler, Gerd Thomas Waldhauser

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 Poincare 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 **Jarvis's Physical Examination and Health Assessment** Helen Forbes, Elizabeth Watt, 2015-11-16 The second edition of the leading Australian text Jarvis's Physical Examination and Health Assessment has been carefully revised and updated to reflect current skills critical to the practice of registered nurses in an Australian and New Zealand context Jarvis s Physical Examination and Health Assessment incorporates the most up to date research data clinical practice policies and procedures Authors Helen Forbes and Elizabeth Watt skillfully embed prominent nursing concepts throughout including patient centered care cultural and social considerations health promotion and disease prevention as well as the individual across the lifespan Jarvis s Physical Examination and Health Assessment is the ideal tool for undergraduate nursing students registered nurses and experienced practitioners wishing to develop and refine their health assessment skills Comprehensively addresses approaches to the context of health assessment in nursing key functional areas of health assessment and assessment tools and techniques Spelling terminology measurements cultural and social considerations clinical procedures and best practice updated to reflect the most recent Australian and New Zealand guidelines and protocols Summary checklists for all nursing and health professional examination techniques Part of a comprehensive and revised learning package including Pocket Companion Jarvis s Physical Examination Health Assessment 2e and Student Laboratory Manual Jarvis s Physical Examination Health Assessment 2e Revised Table of Contents increased focus on relevance of the health assessment areas to the functional status of the person Common laboratory studies including normal values added to objective data tables where relevant New chapter on focused assessment integrating clinical decision making and clinical reasoning New chapter on substance abuse assessment New chapter on the complete health assessment outlines the application of various frameworks for health

assessment head to toe body systems functional Clearly identified health assessment skills for beginning and advanced nursing practice Revised online learning and teaching resources available on evolve Revised clinical case studies which High-Performance Bolting Technology for illustrate documentation and critical thinking related to the chapter focus 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, 2018-07-12 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 **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 Big Data and High Performance Computing L. Grandinetti, G.R. Joubert, M. Kunze, 2015-10-20 Big Data has been much in the news in recent years and the advantages conferred by the collection and analysis of large datasets in fields such as marketing medicine and finance have led to claims that almost any real world problem could be solved if sufficient data were available This is of course a very simplistic view and the usefulness of collecting processing and storing large datasets must always be seen in terms of the communication processing and storage capabilities of the computing platforms available This book presents papers from the International Research Workshop Advanced High Performance Computing Systems held in Cetraro Italy in July 2014 The papers selected for publication here discuss fundamental aspects of the definition of Big Data as well as considerations from practice where complex datasets are collected processed and stored The concepts problems methodologies and solutions presented are of much more general applicability than may be suggested by the particular application areas considered As a result the book will be of interest to all those whose work involves the processing of very large data sets exascale computing and the emerging fields of data science 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

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 multiepitopic 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 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 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 D browska was awarded the Alexander von Humboldt Professorship 2018 Sustainable Plastics Joseph P. Greene, 2014-09-22 Providing guidelines for implementing sustainable practices for traditional petroleum based plastics biobased plastics and recycled plastics Sustainable Plastics and the Environment explains what sustainable plastics are why sustainable plastics are needed which sustainable plastics to use and how manufacturing companies can integrate them into their manufacturing operations A vital resource for practitioners scientists researchers and students the text includes impacts of plastics including Life Cycle Assessments LCA and sustainability strategies related to biobased plastics and petroleum based plastics as well as end of life options for petroleum Towards an embodied science of intersubjectivity: Widening the scope of social and biobased plastics 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 guestion 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 dis connection 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 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 neuropsychoanalytic 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

Talent Identification and Development in Sports Performance Nuno Leite, Alberto Lorenzo Calvo, Julio Calleja-Gonzalez, Bruno Gonçalves, Sean Cumming, 2022-01-13 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 q 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 Natural Final Causality and Scholastic Thought Corey Barnes, 2024-08-13 This book examines scholastic conceptions of final causality through the methods and concerns of historical theology It argues the history of final causality is most profitably understood according to the interplay of regularity order and intentionality as interpretive categories Within this analytic framework the author explores the history and theological implications of final causality from Aristotle to Nicole Oresme utilizing shifts in the dominant interpretive category to clarify how final causality could change from one of four co equal explanatory strategies in Aristotle to the cause of causes in Avicenna to a merely metaphorical cause in Walter Chatton Theological debates ranging from questions of creation the relationship of primary and secondary causality and of the ultimate good to secondary goods the autonomy or instrumentality of nature and the compatibility of chance with providence motivated many of these changes The chapters examine final causality in Aristotle and the commentorial tradition from late antiquity to medieval Arabic sources and then consider in detail various scholastic understandings and uses of final causality The book will be of particular

interest to scholars of historical theology systematic theology scholastic thought and medieval philosophy The Routledge Companion to Philosophy of Social Science Lee McIntyre, Alex Rosenberg, 2016-12-08 37 Why Is There No The Psychology of Magic and the Magic of Psychology Amir Raz, Jay A. Olson, Gustav Philosophy of Political Science Kuhn, 2016-11-18 Magicians have dazzled audiences for many centuries however few researchers have studied how let alone why most tricks work The psychology of magic is a nascent field of research that examines the underlying mechanisms that conjurers use to achieve enchanting phenomena including sensory illusions misdirection of attention and the appearance of mind control and nuanced persuasion Most studies to date have focused on either the psychological principles involved in watching and performing magic or neuromagic the neural correlates of such phenomena Whereas performers sometimes question the contributions that modern science may offer to the advancement of the magical arts the history of magic reveals that scientific discovery often charts new territories for magicians In this research topic we sketch out the symbiotic relationship between psychological science and the art of magic On the one hand magic can inform psychology with particular benefits for the cognitive social developmental and transcultural components of behavioural science Magicians have a large and robust set of effects that most researchers rarely exploit Incorporating these effects into existing experimental even clinical paradigms paves the road to innovative trajectories in the study of human behaviour For example magic provides an elegant way to study the behaviour of participants who may believe they had made choices that they actually did not make Moreover magic fosters a more ecological approach to experimentation whereby scientists can probe participants in more natural environments compared to the traditional lab based settings Examining how magicians consistently influence spectators for example can elucidate important aspects in the study of persuasion trust decision making and even processes spanning authorship and agency Magic thus offers a largely underused armamentarium for the behavioural scientist and clinician On the other hand psychological science can advance the art of magic The psychology of deception a relatively understudied field explores the intentional creation of false beliefs and how people often go wrong Understanding how to methodically exploit the tenuous twilight zone of human vulnerabilities perceptual logical emotional and temporal becomes all the more revealing when top down influences including expectation symbolic thinking and framing join the fray Over the years science has permitted magicians to concoct increasingly effective routines and to elicit heightened feelings of wonder from audiences Furthermore on occasion science leads to the creation of novel effects or the refinement of existing ones based on systematic methods For example by simulating a specific card routine using a series of computer stimuli researchers have decomposed the effect and reconstructed it into a more effective routine Other magic effects depend on meaningful psychological knowledge such as which type of information is difficult to retain or what changes capture attention Behavioural scientists measure and study these factors By combining analytical findings with performer intuitions psychological science begets effective magic Whereas science strives on parsimony and independent

replication of results magic thrives on reproducing the same effect with multiple methods to obscure parsimony and minimise detection This Research Topic explores the seemingly orthogonal approaches of scientists and magicians by highlighting the crosstalk as well as rapprochement between psychological science and the art of deception **Insights in sports social science** Hans Westerbeek, Gayle McPherson, Jess C. Dixon, 2023-06-22 **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 Alexander's Care of the Patient in Surgery -**E-Book** Jane C. Rothrock, 2022-07-01 Selected for Doody's Core Titles 2024 in Perioperative Gain the knowledge and skills you need to provide safe effective perioperative nursing care Alexander's Care of the Patient in Surgery 17th Edition is the definitive resource for nurses and surgical technologists training for a career in the operating room Illustrated step by step instructions cover patient care in more than 400 surgical interventions including patient positioning instrumentation and postoperative care Along with the latest on robotic surgery and a review of evidence based guidelines this edition includes new coverage of COVID 19 and gender affirmation surgery From well known educator Jane C Rothrock and with every chapter authored by an expert nurse Alexander's gives you the tools you need to pass the CNOR certification exam and succeed in the surgical setting Value Creation with Digital Twins Linard Dario Barth, 2024-10-09 A digital twin is a digital representation of a real world counterpart which can receive and provide data to create value within a use case Digital twins create value for users by enabling new and enhanced smart services However ambiguous definitions and terminology coupled with a lack of shared conceptual reference frameworks complicate cross functional discussions and

hinder the widespread implementation of digital twins This thesis proposes a new definition and presents two conceptual reference frameworks to systematically depict value creation with digital twins A design science research approach with mixed methods was used to iteratively design and evaluate these artifacts while ensuring scientific rigor practical relevance and usefulness The applied methods within the five research phases include systematic literature research interviews workshops with academic experts qualitative and quantitative questionnaires workshops with practice experts and an in depth case study in smart waste management The major findings of this research are i the proposal of a new definition of digital twins that reflects a practical understanding by focusing on value creation ii a scientific conceptual reference framework focusing on completeness by distinguishing 81 elements involved in value creation with digital twins iii a second more application oriented conceptual reference framework focusing on the interrelations of the elements essential for the value creation in practice and iv an instantiation of the application oriented framework for the use case of the in depth case study All artifacts are consistent in content and include the following main dimensions which are to be considered when creating value with digital twins data resources internal value creation and external value creation These artifacts contribute to a common understanding of value creation with digital twins in research and practice Furthermore they enable researchers and practitioners to structure their digital twin activities and communicate them to internal and external stakeholders

Enjoying the Beat of Phrase: An Psychological Symphony within Physical Science Exemplar June 2014

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