



Basic Education
KwaZulu-Natal Department of Education
REPUBLIC OF SOUTH AFRICA

PHYSICAL SCIENCES P1 (PHYSICS)
COMMON TEST
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**NATIONAL SENIOR
CERTIFICATE**

GRADE 10

MARKS: 100

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This question paper consists of 8 pages and 1 data sheet.

Physical Science Exemplar June 2014

Marc H. V. Van Regenmortel

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the author's name.

Physical Science Exemplar June 2014:

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

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 Dąbrowska, 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 Dąbrowska was awarded the Alexander von Humboldt Professorship 2018. *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. *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

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

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

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

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

International Conference on Applied Technologies Miguel Botto-Tobar, Marcelo Zambrano Vizuete, Sergio Montes León, Pablo Torres-Carrión, Benjamin Durakovic, 2024-05-29 The three volume proceedings set CCIS 2049 2050 and 2051 constitutes the refereed proceedings of the 5th International Conference on Applied Technologies on International Conference on Applied Technologies ICAT 2023 held in Samborondon Ecuador November 22-24 2023 The 66 papers included in these proceedings were carefully reviewed and selected from 250 submissions They are organized in sections by topics as follows Intelligent Systems Communications e-Commerce e-Government e-Learning Electronics Machine Vision Security

Technology Trends and Z AT for Engineering Applications
Literacy,2014

Annual Report India. Department of School Education &

Development of executive function during childhood Yusuke Moriguchi, Philip D Zelazo, Nicolas Chevalier, 2016-04-01 Executive function refers to the goal oriented regulation of one's own thoughts actions and emotions Its importance is attested by its contribution to the development of other cognitive skills e.g theory of mind social abilities e.g peer interactions and academic achievement e.g mathematics and by the consequences of deficits in executive function which are observed in wide range of developmental disorders such as attention deficit hyperactivity disorder and autism Over the last decade there have been growing interest in the development of executive function and an expanding body of research has shown that executive function develops rapidly during the preschool years with adult level performance being achieved during adolescence or later This recent work together with experimental research showing the effects of interventions targeting executive function has yielded important insights into the neurocognitive processes underlying executive function Given the complexity of the construct of executive function however and the multiplicity of underlying processes there are often inconsistencies in the way that executive function is defined and studied This inconsistency has hampered communication among researchers from various fields This Research Topic is intended to bridge this gap and provide an opportunity for researchers from different perspectives to discuss recent advances in understanding childhood executive function Researchers using various methods including behavioral experiments neuroimaging eye tracking computer simulation observational methods and questionnaires are encouraged to contribute original empirical research In addition to original empirical articles theoretical reviews and opinions perspective articles on promising future directions are welcome We hope that researchers from different areas such as developmental psychology educational psychology experimental psychology neuropsychology neuroscience psychiatry computational science etc will be represented in the Research Topic

Editorial: Best Practice Approaches for Mixed Methods Research in Psychological Science M. Teresa Anguera, Angel Blanco-Villaseñor, Gudberg K. Jonsson, José Luis Losada, Mariona Portell, 2021-01-21

Positive Psychological Interventions Beyond Weird Contexts: How, When, and Why They Work Llewellyn Ellardus Van Zyl, Marijke Schotanus-Dijkstra, Susana Llorens, Jeff Klibert, Machteld Van Den Heuvel, Claude-Hélène Mayer, Wenjie Duan, Dan Tomasulo, 2022-11-14

Handbook of Self-Regulation, Third Edition Kathleen D. Vohs, Roy F. Baumeister, 2017-10-13

This authoritative handbook reviews the breadth of current knowledge on the conscious and nonconscious processes by which people regulate their thoughts emotions attention behavior and impulses Individual differences in self regulatory capacities are explored as are developmental pathways The volume examines how self regulation shapes and is shaped by social relationships Failures of self regulation are also addressed in chapters on addictions overeating compulsive spending and attention deficit hyperactivity disorder Wherever possible contributors identify implications of the research for helping people enhance their self regulatory capacities and pursue desired goals

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 Cnidaria, Past, Present and Future**

Stefano Goffredo,Zvy Dubinsky,2016-09-07 This volume presents a broad panorama of the current status of research of invertebrate animals considered belonging to the phylum Cnidaria such as hydra jellyfish sea anemone and coral In this book the Cnidarians are traced from the Earth s primordial oceans to their response to the warming and acidifying oceans Due to the role of corals in the carbon and calcium cycles various aspects of cnidarian calcification are discussed The relation of the Cnidaria with Mankind is approached in accordance with the Editors philosophy of bridging the artificial schism between science arts and Humanities Cnidarians encounters with humans result in a broad spectrum of medical emergencies that are reviewed The final section of the volume is devoted to the role of Hydra and Medusa in mythology and art Talent Identification and Development in Sports Performance

Nuno Leite,Alberto Lorenzo Calvo,Julio Calleja-Gonzalez,Bruno Gonçalves,Sean Cumming,2022-01-13 **Expression of emotion in music and vocal**

communication Anjali Bhatara,Petri Laukka,Daniel J. Levitin,2014-08-18 Two of the most important social skills in humans are the ability to determine the moods of those around us and to use this to guide our behavior To accomplish this we make use of numerous cues Among the most important are vocal cues from both speech and non speech sounds Music is also a reliable method for communicating emotion It is often present in social situations and can serve to unify a group s mood for ceremonial purposes funerals weddings or general social interactions Scientists and philosophers have speculated on the origins of music and language and the possible common bases of emotional expression through music speech and other vocalizations They have found increasing evidence of commonalities among them However the domains in which researchers investigate these topics do not always overlap or share a common language so communication between disciplines has been limited The aim of this Research Topic is to bring together research across multiple disciplines related to the production and perception of emotional cues in music speech and non verbal vocalizations This includes natural sounds produced by human

and non human primates as well as synthesized sounds Research methodology includes survey behavioral and neuroimaging techniques investigating adults as well as developmental populations including those with atypical development Studies using laboratory tasks as well as studies in more naturalistic settings are included

Enjoying the Tune of Appearance: An Psychological Symphony within **Physical Science Exemplar June 2014**

In some sort of used by displays and the ceaseless chatter of quick communication, the melodic beauty and emotional symphony developed by the published term frequently disappear in to the back ground, eclipsed by the relentless sound and interruptions that permeate our lives. Nevertheless, set within the pages of **Physical Science Exemplar June 2014** an enchanting fictional value overflowing with raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, this charming masterpiece conducts viewers on an emotional journey, skillfully unraveling the hidden songs and profound influence resonating within each cautiously constructed phrase. Within the depths with this poignant evaluation, we will discover the book is main harmonies, analyze its enthralling writing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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