



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS/ NATIONAL SENIOR CERTIFICATE EXAMINATIONS

PHYSICAL SCIENCES: PHYSICS (P1)

MAY/JUNE 2024

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MARKS: 150

TIME: 3 hours

This question paper consists of 16 pages and 3 data sheets.

2014 Physical Science June Exemplar Paper

Qiaohong Zu, Bo Hu



2014 Physical Science June Exemplar Paper:

Shaping Natural History and Settler Society Tanja Hammel, 2019-08-23 This book explores the life and work of Mary Elizabeth Barber a British born settler scientist who lived in the Cape during the nineteenth century It provides a lens into a range of subjects within the history of knowledge and science gender and social history postcolonial critical heritage and archival studies The book examines the international importance of the life and works of a marginalized scientist the instrumentalisation of science to settlers political concerns and reveals the pivotal but largely silenced contribution of indigenous African experts Including a variety of material visual and textual sources this study explores how these artefacts are archived and displayed in museums and critically analyses their content and silences The book traces Barber s legacy across three continents in collections and archives offering insights into the politics of memory and history making At the same time it forges a nuanced argument incorporating study of the North and South the history of science and social history and the past and the present Chemical news and Journal of physical science ,1876 The Chemical News and Journal of Physical Science ,1776 **Britannica Book of the Year 2014** Encyclopaedia Britannica, Inc.,2014-03-01 The Britannica Book of the Year 2014 provides a valuable viewpoint of the people and events that shaped the year and serves as a great reference source for the latest news on the ever changing populations governments and economies throughout the world It is an accurate and comprehensive reference that you will reach for again and again **4D Visualization of Matter** Ahmed H Zewail,2014-09-12 Ever since the beginning of mankind s efforts to pursue scientific inquiry into the laws of nature visualization of the very distant and the very small has been paramount The examples are numerous A century ago the atom appeared mysterious a raisin or plum pie of no structure until it was visualized on the appropriate length and time scales Similarly with telescopic observations a central dogma of the cosmos was changed and complexity yielded to simplicity of the heliocentric structure and motion in our solar system For matter in over a century of developments major advances have been made to explore the inner microscopic structures and dynamics These advances have benefited many fields of endeavor but visualization was incomplete it was limited either to the 3D spatial structure or to the 1D temporal evolution However in systems with myriads of atoms 4D spatiotemporal visualization is essential for dissecting their complexity The biological world is rich with examples and many molecular diseases cannot be fully understood without such direct visualization as for example in the case of Alzheimer s and Parkinson s The same is true for phenomena in materials science chemistry and nanoscience This anthology is an account of the collected works that have emerged over the past decade from Caltech Through recent publications the volume provides overviews of the principles the electron based techniques and the applications made Thanks to advances in imaging principles and technology it is now possible with 4D electron microscopy to reach ten orders of magnitude improvement in time resolution while simultaneously conserving the atomic spatial resolution in visualization This is certainly a long way from Robert Hooke s microscopy which was recorded in his 1665 masterpiece

Micrographia *Neural Information Processing* Tom Gedeon, Kok Wai Wong, Minho Lee, 2019-12-10 The three volume set of LNCS 11953 11954 and 11955 constitutes the proceedings of the 26th International Conference on Neural Information Processing ICONIP 2019 held in Sydney Australia in December 2019 The 173 full papers presented were carefully reviewed and selected from 645 submissions The papers address the emerging topics of theoretical research empirical studies and applications of neural information processing techniques across different domains The third volume LNCS 11955 is organized in topical sections on semantic and graph based approaches spiking neuron and related models text computing using neural techniques time series and related models and unsupervised neural models 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 The Selected Papers of Sir John Meurig Thomas John Meurig Thomas, 2017-07-07 John Meurig Thomas is a former Director of the Royal Institution of Great Britain a former head of the Department of Physical Chemistry and former Master of Peterhouse University of Cambridge A world renowned solid state materials and surface chemist he has been an educator researcher academic administrator author of university texts government advisor industrial consultant and trustee of national museums in a career spanning over 50 years Recipient of many international awards including the Linus Pauling Willard Gibbs Kapitza Natta Stokes Davy and Faraday medals he is also a fellow of the Royal Society 1977 of the American Philosophical Society 1993 and of ten other national academies He is best known for his fundamental work in heterogeneous catalysis chemical electron microscopy and in the popularisation of science for which in conjunction with his services to chemistry he was knighted 1991 He is also founding editor of three scientific journals and editor or co editor of some 30 monographs A new mineral meurigite was named in his honour 1995 Most recently in 2016 Sir John was awarded the Royal Medal for Physical Sciences by the Royal Society Drawn from over 1200 publications this volume contains a summarised account of Sir John's work with a selection of the new techniques pioneered and discovered by him and his colleagues Also included are popular science articles and various illustrations of techniques which have enhanced our knowledge of many facets of condensed matter science Contributions from 80 peers colleagues former co workers students and friends worldwide who have interacted with or been influenced by him are a tribute to the professional and personal life of Sir John making this book a unique reflective summary of the work of one of the greatest achievers in modern British physical science **Natural History Collector: Hunt, Discover, Learn!** Michael Sanchez, 2017-12-19 Loaded with hands on kid friendly projects Natural History Collector Hunt Discover Learn is for budding naturalists and nature collectors This book teaches techniques for cleaning caring for and displaying discovered treasures **Human Centered Computing** Qiaohong Zu, Bo

Hu,2018-02-01 This book constitutes revised selected papers from the thoroughly refereed proceedings of the Third International Human Centered Computing Conference HCC 2017 that consolidated and further develops the successful ICPCA SWS conferences on Pervasive Computing and the Networked World and which was held in Kazan Russia in August 2017 The 48 full and 20 short papers presented in this book together with 2 invited keynotes were carefully reviewed and selected from numerous submissions This proceedings present recent advances in human machine interfaces wireless and mobile network technologies and data analytics which make computer services truly human centric

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