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SENIOR CERTIFICATE EXAMINATIONS/
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MATHEMATICS P1

MAY/JUNE 2023

MARKS: 150

TIME: 3 hours

The question paper consists of 9 pages and 1 information sheet.



FULL MEMO

GRADE 12

MATHEMATICS

PAPER 1

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Assessing Mathematical Literacy Kaye Stacey, Ross Turner, 2014-11-03 This book describes the design development delivery and impact of the mathematics assessment for the OECD Programme for International Student Assessment PISA First the origins of PISA's concept of mathematical literacy are discussed highlighting the underlying themes of mathematics as preparation for life after school and mathematical modelling of the real world and clarifying PISA's position within this part of the mathematics education territory The PISA mathematics framework is introduced as a significant milestone in the development and dissemination of these ideas The underlying mathematical competencies on which mathematical literacy so strongly depends are described along with a scheme to use them in item creation and analysis The development and implementation of the PISA survey and the consequences for the outcomes are thoroughly discussed Different kinds of items for both paper based and computer based PISA surveys are exemplified by many publicly released items along with details of scoring The novel survey of the opportunity students have had to learn the mathematics promoted through PISA is explained The book concludes by surveying international impact It presents viewpoints of mathematics educators on how PISA and its constituent ideas and methods have influenced teaching and learning practices curriculum arrangements assessment practices and the educational debate more generally in fourteen countries *Big Data* John Storm Pedersen, Adrian

Wilkinson, 2019 **Promise Application and Pitfalls** **Routledge Handbook of Public Communication of Science and Technology** Massimiano Bucchi, Brian Trench, 2014-06-20 Communicating science and technology is a high priority of many research and policy institutions a concern of many other private and public bodies and an established subject of training and education Over the past few decades the field has developed and expanded significantly both in terms of professional practice and in terms of research and reflection The Routledge Handbook of Public Communication of Science and Technology provides a state of the art review of this fast growing and increasingly important area through an examination of the research on the main actors issues and arenas involved In this brand new revised edition the book brings the reviews up to date and deepens the analysis As well as substantial reworking of many chapters it gives more attention to digital media and the global aspects of science communication with the inclusion of four new chapters Several new contributors are added to leading mass communication scholars sociologists public relations practitioners science writers and others featured herein With key questions for further discussion highlighted in each chapter the handbook is a student friendly resource and its scope and expert contributors mean it is also ideal for both practitioners and professionals working in the field Combining the perspectives of different disciplines and of different geographical and cultural contexts this original text provides an interdisciplinary and global approach to the public communication of science and technology It is a valuable resource for students researchers educators and professionals in media and journalism sociology the history of science and science and technology **Analytical Political Economy** Roberto Veneziani, Luca Zamparelli, 2018-06-11 Offering a unique picture of

recent developments in a range of non conventional theoretical approaches in economics this book introduces readers to the study of Analytical Political Economy and the changes within the subject Includes a wide range of topics and theoretical approaches that are critically and thoroughly reviewed Contributions within the book are written according to the highest standards of rigor and clarity that characterize academic work Provides comprehensive and well organized surveys of cutting edge empirical and theoretical work covering an exceptionally wide range of areas and fields Topics include macroeconomic theories of growth and distribution agent based and stock flow consistent models financialization and Marxian price and value theory Investigates exploitation theory trade theory the role of expectations and animal spirits on macroeconomic performance as well as empirical research in Marxian economics *Safety and Reliability of Complex Engineered Systems* Luca Podofillini, Bruno Sudret, Bozidar Stojadinovic, Enrico Zio, Wolfgang Kröger, 2015-09-03 *Safety and Reliability of Complex Engineered Systems* contains the Proceedings of the 25th European Safety and Reliability Conference ESREL 2015 held 7 10 September 2015 in Zurich Switzerland Including 570 papers on theories and methods in the area of risk safety and reliability and their applications to a wide range of industrial civil and social sectors this book will be of interest to academics and professionals involved or interested in aspect of risk safety and reliability in various engineering areas **Yearbook of International Organizations 2013-2014 (Volumes 1a-1b)** Union Of International Associations, Union of International Associations, 2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events **The Mining World Index of Current Literature** ,1915 **Journal of Physical Education and Research** ,2013-02 *International Catalogue of Scientific Literature* ,1906 Social Welfare ,2013-04 *Collectanea Mathematica* ,2013 The United States Catalog Mary Burnham, Carol Hurd, 1928 *Scientific American* ,1878 **Science Abstracts** ,1965 **Canadian Books in Print** ,1977 **Physics Briefs** ,1994 International Aerospace Abstracts ,1993 Who's who Henry Robert Addison, Charles Henry Oakes, William John Lawson, Douglas Brooke Wheelton Sladen, 1910 An annual biographical dictionary with which is incorporated Men and women of the time *Current Index to Journals in Education* ,2000 *Forthcoming Books* Rose Army, 2003

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