

# ZIMBABWE SCHOOL EXAMINATIONS COUNCIL General Certificate of Education Advanced Level

#### MATHEMATICS

9164/3

PAPER 3 Mechanics and Statistics

#### NOVEMBER 2015 SESSION

3 hours.

Additional materials: Answer paper Oraph paper List of Formulae Scientific calculator

TIME 3 hours

#### INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces provided on the answer paper/answer booklet.

Answer all questions.

If a numerical answer cannot be given exactly, and the accuracy required is not specified in the question, then in the case of an angle it should be given to the nearest degree, and in other cases, it should be given correct to 2 significant figures.

If a numerical value for g is necessary, take  $g = 9.81 \text{ ms}^{-2}$ .

#### INFORMATION FOR CANDIDATES

The number of marks is given in brackets [ ] at the end of each question or part question.

The total number of marks for this paper is 120.

Within each section of the paper, questions are printed in the order of their mark allocations and candidates are advised, within each section, to attempt questions sequentially.

The use of a scientific calculator is expected, where appropriate.

You are reminded of the need for clear presentation in your answers.

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# **Advanced Level Mathematics 9164 1 2014**

Krishna R. Reddy,Susheel Kalia,Srinivas Tangellapalli,Divya Prakash

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Machine Learning in Water Treatment Rakesh Namdeti, Arlene Abuda Joaquin, 2025-10-21 Machine Learning in Water Treatment is a must have for anyone interested in how artificial intelligence is transforming water treatment offering practical insights case studies and a deep dive into cutting edge machine learning techniques that can improve water quality management Machine Learning in Water Treatment explores the complex fields of wastewater treatment and water purification offering a thorough analysis of the cutting edge machine learning methods used to solve problems with water quality control It provides insights into how artificial intelligence can be incorporated with conventional procedures bridging the gap between conventional water treatment techniques and state of the art data driven solutions. The book will cover the foundations of water treatment procedures providing insights into the ideas behind physical chemical and biological treatment modalities Difficulties in managing water and wastewater quality are paving the way for the use of machine learning as an effective tool for control and optimization Fundamentally the book explains how machine learning models are used in water treatment system control optimization and predictive modeling Readers will learn how to take advantage of machine learning algorithms potential for real time treatment process optimization quality issue identification and water pollutant level prediction through a thorough investigation of data collection preprocessing and model creation Case studies and real world applications provide insightful information about the application of machine learning technologies in a variety of scenarios With its unique combination of theoretical understanding and real world applications this book is an invaluable tool for understanding how water quality management is changing in the age of data driven decision making

Practice-Oriented Research in Tertiary Mathematics Education Rolf Biehler, Michael Liebendörfer, Ghislaine Gueudet, Chris Rasmussen, Carl Winsløw, 2023-01-01 This edited volume presents a broad range of original practice oriented research studies about tertiary mathematics education These are based on current theoretical frameworks and on established and innovative empirical research methods. It provides a relevant overview of current research along with being a valuable resource for researchers in tertiary mathematics education including novices in the field. Its practice orientation research makes it attractive to university mathematics teachers interested in getting access to current ideas and results including theory based and empirically evaluated teaching and learning innovations. The content of the book is spread over 5 sections. The secondary tertiary transition University students mathematical practices and mathematical inquiry Research on teaching and curriculum design University students mathematical inquiry and Mathematics for non specialists. Urban Geology Pradeep Bhaskarrao Jadhav, 2025-09-26. This book presents the result of an innovative challenge to create a systematic literature overview driven by machine generated content Questions and related keywords were prepared for the machine to query discover collate and structure by Artificial Intelligence AI clustering. The AI based approach seemed especially suitable to provide an innovative perspective as the topics are indeed both complex interdisciplinary and

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environmental studies and researchers in the field of waste water management **Recent Advances in Sustainable Environment** Krishna R. Reddy, Susheel Kalia, Srinivas Tangellapalli, Divya Prakash, 2022-10-25 The book presents the select proceedings of the International Conference on Recent Advances in Sustainable Environment RAiSE 2022 It discusses recent challenges and advances in various areas of sustainable environment The topics covered include environmental dynamics atmospheric physics physical oceanography global environmental change ecosystems management climate climatic changes global warming ozone layer depletion carbon capture storage integrated ecosystems management satellite applications in the environment environmental restoration ecological engineering habitat reconstruction biodiversity conservation deforestation landscape degradation restoration ground water remediation soil decontamination environmental sustainability renewable sources of energy clean technologies toxicity assessment epidemiological studies indoor air pollution etc This book will be useful for the researches academicians scientists and professionals working in the various areas of environment sustainability especially sustainable civil engineering Advances in Natural, Human-Made, and Coupled Human-Natural Systems Research Svetlana G. Maximova, Roman I. Raikin, Alexander A. Chibilev, Marina M. Silantyeva, 2023-03-30 This book is a unique collection of advanced research on natural human made and coupled human natural systems The contributors analyze the current state of knowledge address methodological challenges and explore engaging cases The chapters demonstrate the balanced disciplinary strength and discuss interdisciplinary perspectives. The authors undertake a holistic and spatially integrative analysis to understand the sustainability of environmental economic and social systems emphasizing the coupled nature of such systems In particular the chapters explore biodiversity conservation and natural resources the sustainability of natural and human altered ecosystems sustainability vulnerability issues in coupled human natural systems mechanisms to foster sustainable environmental practices eventually accumulating sustainability research and practice in various fields More than that the challenges of educational and economic systems are studied closely The authors rely on unique data develop regional and local knowledge and explore global trends at local scales A separate focus is devoted to human health and well being The book has seven sections 1 Advances in Natural and Coupled Human Natural Systems Research 2 Economic Systems in the Age of Digital Changes and Unstable Environments 3 Sustainable Social Systems Migration Flows and Social Cohesion 4 Taking Action for Greater Security and Effective Partnerships for Sustainable Development 5 Systemic Challenges and Changes in Education Systems in Russia and Around the Globe 6 Advances in Cultural Traditions and Innovation Development Barriers and Social Stability 7 Human Health and Well being Taking Action for Sustainable Development Written by scholars and practitioners from multiple fields of knowledge the book is designed for a broader audience interested in the following research areas systems research and thinking sustainability research and thinking system dynamics management of complexity decision analysis organization theory governance natural resources environmental studies economic development social policies cleaner production innovation cultural studies and sustainable

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