

Gr 12 MATHEMATICS SCOPE FOR JUNE 2025 EXAMINATION P1

TOPIC	MARKS
1. Basic Algebra	25 ± 3
2. Number patterns; Series and Sequences	25 ± 3
3. Functions and Inverse Functions	35 ± 3
4. Calculus	35 ± 3
4.1 First principles	
4.2 Rules	
4.3 Graphs and tangent	
4.4 NO Applications	
5. Finance Gr 11	15 ± 3
6. Probability Gr 11	15 ± 3
TOTAL:	150
TIME:	3 hours

Gr 12 MATHEMATICS SCOPE FOR JUNE 2025 EXAMINATION P2

TOPIC	MARKS
1. Statistics(Q1&2)-Gr11	20 ± 3
2. Analytical Geometry(Q3&4)	40 ± 3
3. ALL-Trigonometry(Functions& 2/3- D included)	50 ± 3
4. ALL-Geometry	40 ± 3
TOTAL:	150
TIME:	3 hours

- Kindly assure that you complete ALL-content according to the workschedule.
- NO content must be **REMOVED** without the consent of the office.
- An irregularity will be filed that might affect the learner marks.
- Gr10 and 11 question papers must be internally set and moderated.

Thank you

Mr A. Da Silva



Mathematics Scope For Paper 2014

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Ongoing Advancements in Philosophy of Mathematics Education Maria Aparecida Viggiani Bicudo, Bronislaw Czarnocha, Maurício Rosa, Małgorzata Marciniak, 2023-09-30 Ongoing Advancements in Philosophy of Mathematics Education approaches the philosophy of mathematics education in a forward movement analyzing reflecting and proposing significant contemporary themes in the field of mathematics education The theme that gives life to the book is philosophy of mathematics education understood as arising from the intertwining between philosophy of mathematics and philosophy of education which through constant analytical and reflective work regarding teaching and learning practices in mathematics is materialized in its own discipline philosophy of mathematics education This is the field of investigation of the chapters in the book The chapters are written by an international cohort of authors from a variety of countries regions and continents Some of these authors work with philosophical and psychological foundations traditionally accepted by Western civilization Others expose theoretical foundations based on a new vision and comprising innovative approaches to historical and present day issues in educational philosophy The final third of the book is devoted to these unique and innovative research stances towards important and change resistant societal topics such as racism technology gaps or the promotion of creativity in the field of mathematics education

Zero Syamal K. Sen, Ravi P. Agarwal, 2015-11-06 Zero indicates the absence of a quantity or a magnitude It is so deeply rooted in our psyche today that nobody will possibly ask What is zero From the beginning of the very creation of life the feeling of lack of something or the vision of emptiness void has been embedded by the creator in all living beings While recognizing different things as well as the absence of one of these things are easy it is not so easy to fathom the complete nothingness viz the universal void Although we have a very good understanding of nothingness or equivalently a zero today our forefathers had devoted countless hours and arrived at the representation and integration of zero and its compatibility not only with all non zero numbers but also with all conceivable environments only after many painstaking centuries Zero can be viewed perceived in two distinct forms i as a number in our mundane affairs and ii as the horrific void or Absolute Reality in the spiritual plane the ultimate state of mind Presented are the reasons why zero is a landmark discovery and why it has the potential to conjure up in an intense thinker the dreadful nothingness unlike those of other numbers such as 1 2 and 3 Described are the representation of zero and its history including its deeper understanding via calculus its occurrences and various roles in different countries as well as in sciences engineering along with a stress on the Indian zero that is accepted as the time invariant unique absolute zero This is followed by the significant distinction between mathematics and computational mathematics and the concerned differences between the unique absolute zero and non unique relative numerical zeros and their impact and importance in computations on a digital computer Introduces the history of the value of zero and why it was a landmark discovery Discusses how zero is used in science and engineering and its use in different countries Explains how zero affects different mathematics and calculus

Personalized Learning

Simon Cheung, Fu Wang, Lam Kwok, Petra Poulová, 2023-10-24 This self contained monograph reports the recent approaches methods and practices of technology enabled personalized learning It serves to provide some useful references for researchers and practitioners in the field in conceptualizing and deploying personalized learning Personalized learning emphasizes student centred learning that addresses individual learning strengths needs skills and interests and allows flexibility in the learning mode process time and space where students can take ownership of their learning It has been practiced in educational institutions at both K 12 and higher education level and as evident from several successful cases is an enabler of personalized learning Educational technology incorporated with other forms of innovative pedagogical practices such as blended learning makes personalized learning a reality to achieve its aims effectively and efficiently This book begins with a critical review on the features and trends of personalized learning This is followed by a number of case studies on personalized learning practices with promising results The latest research findings on the approaches methods and strategies on design and implementation of personalized learning are then reported Lastly the prospects of personalized learning are discussed All these provide some useful references for researchers and practitioners in the field in conceptualizing and deploying personalized learning Personalized Learning will be a key resource for academics researchers and advanced students of education instructional design and technology educational research educational technology research methods STEM Education information and communications technology and curriculum and instruction The chapters included in this book were originally published as a special issue of Interactive Learning Environments

Advances in the Contributions of Mathematics in the Field of Education and Psychology Inmaculada Méndez, Juan Pedro Martínez-Ramón, Nelly Lagos San Martín, Belen Garcia-Manrubia, José Manuel García-Fernández, Francisco Manuel Morales Rodríguez, Cecilia María Ruiz Esteban, 2024-03-07

Assessing Computational Thinking David Weintrop, Daisy W. Rutstein, Marie Bienkowski, Steven McGee, 2023-09-12 This book presents different approaches for answering the question How do we assess computational thinking The result is a snapshot of the current state of the field for assessing computational thinking The last decade has seen rapid growth in the presence of computational thinking CT in educational contexts Those working to advance CT argue that the concepts and skills associated with CT are essential to succeed in an increasingly computational world As a result of these efforts there has been tremendous growth in curricula learning environments and innovations around CT education in K 12 classrooms and beyond As CT grows in prominence so too does the need to be able to effectively and equitably assess learners CT abilities This volume is a collection of chapters pursuing different approaches for answering the question How do we assess computational thinking The answers provided span age ranges formal and informal contexts conceptual aspects of CT and varying methodological and evaluative strategies Collectively the volume captures the current state of the field for assessing computational thinking and lays the groundwork for future CT assessment innovation Assessing Computational Thinking will be a key resource for academics researchers and

advanced students of Education Educational Assessment Educational Research Psychology and Research Methods The chapters included in this book were originally published as a special issue of Computer Science Education 5 Steps to a 5 AP Physics C, 2014-2015 Edition Greg Jacobs, Joshua Schulman, 2013-07-30 Presents a study plan to build knowledge and confidence discusses study skills and strategies reviews core concepts and includes one diagnostic exam and two practice exams Spatial Intelligence Daniel Ness, Stephen J. Farenga, Salvatore G. Garofalo, 2017-05-12 Spatial Intelligence examines public and professional conceptions of the relationships between thinking about spatial attributes and active engagement in spatially related constructions and designs Even though children s and adolescents spatial propensities in constructive activities parallel the skills needed by professionals in both established and emerging fields spatial education is often missing from K 12 curricula and is easily impeded by teachers parents or other individuals who do not provide contexts in formalized settings such as schools to nurture its potential This book bridges the gap by linking the natural spatial inclinations interests and proclivities of individuals from a variety of cultures with professional training and expertise in engineering architecture science and mathematics Educators will be better able to achieve the skills and awareness necessary to provide children and young adults with the vital opportunities inherent in spatial education Child Development From Infancy to Adolescence Laura E. Levine, Joyce Munsch, 2023-05-12 Chronologically organized Child Development from Infancy to Adolescence Third Edition introduces topics within the field of child development through unique and engaging Active Learning opportunities **McGraw-Hill's GRE, 2014 Edition (CD)** Steven W. Dulan, 2013-04-26 WE WANT TO HELP YOU SUCCEED ON THE GRE We ve put all of our proven expertise into McGraw Hill s GRE to make sure you re ready for this difficult exam This book will give you the essential skillbuilding techniques and strategies developed by a team of renowned test prep tutors You ll get all the facts about the exam hundreds of practice questions model GRE essays and eight full length practice tests With McGraw Hill s GRE we ll guide you step by step through your preparation program and give you the tools you need to succeed Be prepared for the GRE with 8 practice tests 4 in the book 2 on CD ROM and 2 interactive tests online New free customized Test Planner app available for download See inside front cover for details Coaching videos demonstrating GRE problem solving strategies available free online Proven strategies for answering every question type Advice for international test takers **Yearbook of International Organizations 2014-2015 (Volume 4)** Union Of International Associations, Union of International Associations, 2014-09-17 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Providing both an international organizations

and research bibliography Volume 4 cites over 46 000 publications and information resources supplied by international organizations and provides nearly 18 000 research citations under 40 subject headings This volume also includes a research bibliography on international organizations and transnational associations **Paperbound Books in Print** ,1992

Introductory Mathematics and Statistics, Revised Sixth Edition John S. Croucher,2016-02-10 Introductory Mathematics and Statistics sixth edition revised is the only Australian statistics book that includes a primer on basic maths to ensure a successful start to the study of statistics Croucher demonstrates the relevance of mathematics and statistics in making decisions in day to day commercial situations Numerous contemporary examples and pictorial presentations of data are provided to illustrate real world application of statistics The content has been thoroughly revised and updated using modern data and a detailed description of difficult concepts Introductory Mathematics and Statistics 6re provides an effective grounding of mathematical and statistical methods *Advances in Applied Sciences, Engineering and Technology II* X.S. George Zhao,Hong Zong Si,Pei Long Xu,2014-07-30 Selected peer reviewed papers from the 2014 International Conference on Applied Sciences Engineering and Technology ICASET 2014 July 28 29 2014 Qingdao China **Journal of the Physical Society of Japan** ,1984 Components, Packaging and Manufacturing Technology II A. Wu,2014-02-06 Selected peer reviewed papers from the 2013 3rd International Conference on Components Packaging and Manufacturing Technology ICCPMT 2013 December 31 2013 January 2 2014 Brisbane Australia Green Power, Materials and Manufacturing Technology and Applications III Wen Jiang Du,Mao De Ma,2014-01-03 Selected peer reviewed papers from the 3rd International Conference on Green Power Materials and Manufacturing Technology and Applications GPMMTA 2013 December 27 30 2013 Wuhan China Proceedings of the National Institute of Sciences of India National Institute of Sciences of India,1966 **Government Reports Announcements** ,1973 *Government Reports Announcements & Index* ,1973 National Union Catalog ,1968 Includes entries for maps and atlases

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