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Student Name:

SPECIALIST MATHEMATICS UNITS 3 & 4

TRIAL EXAMINATION 2

2024

Reading Time: 15 minutes
Writing time: 2 hours

Instructions to students

This exam consists of Section A and Section B.
Section A consists of 20 multiple-choice questions and should be answered on the answer sheet which can be found on page 26 of this exam.
Section B consists of 6 extended-answer questions.
Section A begins on page 2 of this exam and is worth 20 marks.
Section B begins on page 11 of this exam and is worth 60 marks.
There is a total of 80 marks available.
All questions in Section A and B should be answered.
In Section B, where more than one mark is allocated to a question, appropriate working must be shown.
An exact value is required to a question unless otherwise directed.
Unless otherwise stated, diagrams in this exam are not drawn to scale.
Students may bring one bound reference into the exam.
Students may bring into the exam one approved technology (calculator or software) and, if desired, one scientific calculator. Calculator memory does not need to be cleared. For approved computer-based CAS, full functionality may be used.
A formula sheet can be found at the end of this exam.

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20maths Paper 4 974questions

Annelies Wilder-Smith



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Open Problems in Algebraic Combinatorics Christine Berkesch, Benjamin Brubaker, Gregg Musiker, Pavlo Pylyavskyy, Victor Reiner, 2024-08-21 In their preface the editors describe algebraic combinatorics as the area of combinatorics concerned with exact as opposed to approximate results and which puts emphasis on interaction with other areas of mathematics such as algebra topology geometry and physics It is a vibrant area which saw several major developments in recent years The goal of the 2022 conference Open Problems in Algebraic Combinatorics 2022 was to provide a forum for exchanging promising new directions and ideas The current volume includes contributions coming from the talks at the conference as well as a few other contributions written specifically for this volume The articles cover the majority of topics in algebraic combinatorics with the aim of presenting recent important research results and also important open problems and conjectures encountered in this research The editors hope that this book will facilitate the exchange of ideas in algebraic combinatorics *Ten Papers on Differential Equations and Functional Analysis* ,1968-12-31 *Index of Mathematical Papers* ,1985 **Monthly Catalog of United States Government Publications** ,1976 **Twenty-Four Papers on Statistics and Probability** , Examcart SSC Math Question Bank Solutions Book In English Examcart Experts, **Applied Mechanics Reviews** ,1952 Complete Book of Grade 4 Thinking Kids,2015-01-05 Reinforce your fourth grader s essential skills with the Complete Book of Grade 4 With the colorful lessons in this workbook your child will strengthen skills that include rounding numbers subjects and predicates library skills and main idea and details The Complete Book series provides a dynamic way for students in prekindergarten to grade 4 to master essential skills Each vivid workbook guides students through a variety of engaging activities in phonics reading comprehension math and writing Challenging concepts are presented in simple language with easy to understand examples while stickers and full color illustrations capture students interest The Complete Book series is a thorough comprehensive guide to grade level success Fractals, Wavelets, and their Applications Christoph Bandt, Michael Barnsley, Robert Devaney, Kenneth J. Falconer, V. Kannan, Vinod Kumar P.B., 2014-09-27 Fractals and wavelets are emerging areas of mathematics with many common factors which can be used to develop new technologies This volume contains the selected contributions from the lectures and plenary and invited talks given at the International Workshop and Conference on Fractals and Wavelets held at Rajagiri School of Engineering and Technology India from November 9 12 2013 Written by experts the contributions hope to inspire and motivate researchers working in this area They provide more insight into the areas of fractals self similarity iterated function systems wavelets and the applications of both fractals and wavelets This volume will be useful for the beginners as well as experts in the fields of fractals and wavelets **Information Processing and Management of Uncertainty in Knowledge-Based Systems. Applications** Jesús Medina, Manuel Ojeda-Aciego, José Luis Verdegay, Irina Perfilieva, Bernadette Bouchon-Meunier, Ronald R. Yager, 2018-05-29 This three volume set CCIS 853 855 constitutes the

proceedings of the 17th International Conference on Information Processing and Management of Uncertainty in Knowledge Based Systems IPMU 2017 held in C diz Spain in June 2018 The 193 revised full papers were carefully reviewed and selected from 383 submissions The papers are organized in topical sections on advances on explainable artificial intelligence aggregation operators fuzzy metrics and applications belief function theory and its applications current techniques to model process and describe time series discrete models and computational intelligence formal concept analysis and uncertainty fuzzy implication functions fuzzy logic and artificial intelligence problems fuzzy mathematical analysis and applications fuzzy methods in data mining and knowledge discovery fuzzy transforms theory and applications to data analysis and image processing imprecise probabilities foundations and applications mathematical fuzzy logic mathematical morphology measures of comparison and entropies for fuzzy sets and their extensions new trends in data aggregation pre aggregation functions and generalized forms of monotonicity rough and fuzzy similarity modelling tools soft computing for decision making in uncertainty soft computing in information retrieval and sentiment analysis tri partitions and uncertainty decision making modeling and applications logical methods in mining knowledge from big data metaheuristics and machine learning optimization models for modern analytics uncertainty in medicine uncertainty in Video Image Processing UVIP

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