

Candidate Name

Centre Number

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ZIMBABWE SCHOOL EXAMINATIONS COUNCIL
General Certificate of Education Ordinary Level

MATHEMATICS
PAPER 1

4004/1

NOVEMBER 2022 SESSION 2 hours 30 minutes

Candidates answer on the question paper

*Additional materials:
Mathematical Instruments*

Allow candidates 5 minutes to count pages before the examination.

This booklet should not be punched or stapled and pages should not be removed.

Time 2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES

Write your Name, Centre number and Candidate number in the spaces at the top of this page.
Write your centre and candidate number in the box on the top right corner of every page of this paper.

Check that all the pages are in the booklet and ask the invigilator for a replacement if there are duplicate or missing pages.

Answer all questions.

Write your answers in the spaces provided on the question paper using black or blue pens.
If working is needed for any question, it must be shown in the space below that question.
Omission of essential working will result in loss of marks.

Decimal answers which are not exact should be given to three significant figures unless stated otherwise.

Mathematical tables, slide rules and calculators should not be brought into the examination room.

INFORMATION FOR CANDIDATES

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

This question paper consists of 19 printed pages and 1 blank page.

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2014 N6 Mathematic Paper

Semyon Dyatlov, Maciej Zworski



2014 N6 Mathematic Paper:

SSC Chapterwise Solved Papers Reasoning 2020 Arihant Experts, 2020-02-10 SSC CGL CHSL Stenographer Multitasking CPO are the popular exams in the country for which numerous students apply every year. When it comes to the preparation of the SSC exams, one needs to have a focused mindset; requires conceptual clarity and immense practice in order to reserve the good rankings. During the preparation, one should include an ample amount of solved papers which is necessary to understand the pattern and trends of questions. The revised edition of 20 years Chapterwise Solved Papers SSC Reasoning is the perfect practice tool for the above-mentioned exams. As the name suggests, this book has been carefully revised to provide the ample amount of last 20 years solved papers 2019-2000 arranged in 28 Chapters with more than 5000 Objective Questions for the conceptual clarity. It also includes 5 Practice Sets Solved Papers from 2015 to 2019 of various SSC exams for the self-evaluation which help to know the stronger and the weaker areas of the aspirants. With the highly useful study material in each chapter and also providing the detailed explanations for all questions in a simplest language, it is a one-stop solution for scoring highest marks in Reasoning Section of SSC Exams.

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Mathematical Theory of Scattering Resonances Semyon Dyatlov, Maciej Zworski, 2019-09-10 Scattering resonances generalize bound states eigenvalues for systems in which energy can scatter to infinity. A typical resonance has a rate of oscillation just as a bound state does and a rate of decay. Although the notion is intrinsically dynamical, an elegant mathematical formulation comes from considering meromorphic continuations of Green's functions. The poles of these meromorphic continuations capture physical information by identifying the rate of oscillation with the real part of a pole and the rate of decay with its imaginary part. An example from mathematics is given by the zeros of the Riemann zeta function; they are essentially the resonances of the Laplacian on the modular surface. The Riemann hypothesis then states that the decay rates for the modular surface are all either 0 or 1 . An example from physics is given by quasi-normal modes of black holes which appear in long-time asymptotics of gravitational waves. This book concentrates mostly on the simplest case of scattering by compactly supported potentials but provides pointers to modern literature where more general cases are studied. It also presents a recent approach to the study of resonances on asymptotically hyperbolic manifolds. The last two chapters are devoted to semiclassical methods in the study of resonances.

A Mathematician's Practical Guide to Mentoring Undergraduate

Research Michael Dorff, Allison Henrich, Lara Pudwell, 2019-09-16 A Mathematician's Practical Guide to Mentoring Undergraduate Research is a complete how to manual on starting an undergraduate research program Readers will find advice on setting appropriate problems directing student progress managing group dynamics obtaining external funding publishing student results and a myriad of other relevant issues The authors have decades of experience and have accumulated knowledge that other mathematicians will find extremely useful **Comprehensive Guide to BITSAT Online Test 2020 with Past 2014-2019 Solved Papers & 90 Online Mock Tests 11th edition** Disha Experts, 2019-08-04

Fourier Analysis on Polytopes and the Geometry of Numbers Sinai Robins, 2024-04-24 This book offers a gentle introduction to the geometry of numbers from a modern Fourier analytic point of view One of the main themes is the transfer of geometric knowledge of a polytope to analytic knowledge of its Fourier transform The Fourier transform preserves all of the information of a polytope and turns its geometry into analysis The approach is unique and streamlines this emerging field by presenting new simple proofs of some basic results of the field In addition each chapter is fitted with many exercises some of which have solutions and hints in an appendix Thus an individual learner will have an easier time absorbing the material on their own or as part of a class Overall this book provides an introduction appropriate for an advanced undergraduate a beginning graduate student or researcher interested in exploring this important expanding field **Deleuze, Bergson, Merleau-Ponty** Dorothea E. Olkowski, 2021-09-07 Deleuze Bergson Merleau Ponty The Logic and Pragmatics of Creation Affective Life and Perception offers the only full length examination of the relationships between Deleuze Bergson and Merleau Ponty Henri Bergson 1859 1941 Maurice Merleau Ponty 1908 1961 and Gilles Deleuze 1925 1995 succeeded one another as leading voices in French philosophy over a span of 136 years Their relationship to one another's work involved far more than their overlapping lifetimes Bergson became both the source of philosophical insight and a focus of criticism for Merleau Ponty and Deleuze Deleuze criticized Merleau Ponty's phenomenology as well as his interest in cognitive and natural science Author Dorothea Olkowski points out that each of these philosophers situated their thought in relation to their understandings of crucial developments and theories taken up in the history and philosophy of science and this has been difficult for Continental philosophy to grasp She articulates the differences between these philosophers with respect to their disparate approaches to the physical sciences and with how their views of science function in relation to their larger philosophical projects In Deleuze Bergson Merleau Ponty Olkowski examines the critical areas of the structure of time and memory the structure of consciousness and the question of humans relation to nature She reveals that these philosophers are working from inside one another's ideas and are making strong claims about time consciousness reality and their effects on humanity that converge and diverge The result is a clearer picture of the intertwined workings of Continental philosophy and its fundamental engagement with the sciences *Algorithmic Game Theory* Martin Gairing, Rahul Savani, 2016-09-01 This book constitutes the refereed proceedings of the 9th International Symposium on Algorithmic Game Theory SAGT 2016 held

in Liverpool UK in September 2016 The 26 full papers presented together with 2 one page abstracts were carefully reviewed and selected from 62 submissions The accepted submissions cover various important aspects of algorithmic game theory such as computational aspects of games congestion games and networks matching and voting auctions and markets and mechanism design div **Solving Software Challenges for Exascale** Stefano Markidis, Erwin Laure, 2015-02-18 This

volume contains the thoroughly refereed post conference proceedings of the Second International Conference on Exascale Applications and Software EASC 2014 held in Stockholm Sweden in April 2014 The 6 full papers presented together with 6 short papers were carefully reviewed and selected from 17 submissions They are organized in two topical sections named toward exascale scientific applications and development environment for exascale applications **Algebraic Geometry:**

Salt Lake City 2015 Tommaso de Fernex, Brendan Hassett, Mircea Mustață, Martin Olsson, Mihnea Popa, Richard Thomas, 2018-06-01 This is Part 1 of a two volume set Since Oscar Zariski organized a meeting in 1954 there has been a major algebraic geometry meeting every decade Woods Hole 1964 Arcata 1974 Bowdoin 1985 Santa Cruz 1995 and Seattle 2005 The American Mathematical Society has supported these summer institutes for over 50 years Their proceedings volumes have been extremely influential summarizing the state of algebraic geometry at the time and pointing to future developments The most recent Summer Institute in Algebraic Geometry was held July 2015 at the University of Utah in Salt Lake City sponsored by the AMS with the collaboration of the Clay Mathematics Institute This volume includes surveys growing out of plenary lectures and seminar talks during the meeting Some present a broad overview of their topics while others develop a distinctive perspective on an emerging topic Topics span both complex algebraic geometry and arithmetic questions specifically analytic techniques enumerative geometry moduli theory derived categories birational geometry tropical geometry Diophantine questions geometric representation theory characteristic and adic tools etc The resulting articles will be important references in these areas for years to come **Commutative Algebra** Irena Peeva, 2022-02-18

This contributed volume is a follow up to the 2013 volume of the same title published in honor of noted Algebraist David Eisenbud's 65th birthday It brings together the highest quality expository papers written by leaders and talented junior mathematicians in the field of Commutative Algebra Contributions cover a very wide range of topics including core areas in Commutative Algebra and also relations to Algebraic Geometry Category Theory Combinatorics Computational Algebra Homological Algebra Hyperplane Arrangements and Non commutative Algebra The book aims to showcase the area and aid junior mathematicians and researchers who are new to the field in broadening their background and gaining a deeper understanding of the current research in this area Exciting developments are surveyed and many open problems are discussed with the aspiration to inspire the readers and foster further research

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