

SAMPLE QUESTION PAPER 1

A Highly Simulated Sample Question Paper for ISC Class XII

MATHEMATICS (Fully Solved)

GENERAL INSTRUCTIONS

1. The Question Paper consists of three sections A, B and C.
2. Candidates are required to attempt all questions from **Section A** and all questions **either** from **Section B** or **Section C**.
3. **Section A**: Internal choice has been provided in two questions of two marks each, two questions of four marks each and two questions of six marks each.
4. **Section B**: Internal choice has been provided in one question of two marks and one question of four marks.
5. **Section C**: Internal choice has been provided in one question of two marks and one question of four marks.
6. All working, including rough work, should be done on the same sheet as, and adjacent to the rest of the answer.
7. The intended marks for questions or parts of questions are given in brackets [].
8. Mathematical tables and graph papers are provided.

Time : 3 Hours

Max. Marks : 80

Section A (65 Marks)

1. In sub-parts (i) to (x) choose the correct option and in sub-parts (xi) to (xv), answer the questions as instructed. [15 × 1]

X (i) If the binary operation $*$ defined on \mathbb{Q} , is defined as $a * b = 2a + b - ab$, $\forall a, b \in \mathbb{Q}$, then the value of $3 * 4$ is:

- (a) 2 (b) -2 (c) 3 (d) -3

(ii) Let $A = \{1, 2, 3, \dots, n\}$ and $B = \{a, b\}$. Then, the number of surjection from A into B is

- (a) nP_n (b) $2^n - 2$ (c) $2^n - 1$ (d) None of these

(iii) Value of $\sin\left(2\sin^{-1}\frac{3}{5}\right)$ is

- (a) $\frac{12}{25}$ (b) $\frac{24}{25}$ (c) $\frac{13}{25}$ (d) $\frac{17}{25}$

O (iv) If $A = \begin{bmatrix} 2 & 3 \\ 1 & 2 \end{bmatrix}$, $B = \begin{bmatrix} 1 & 3 & 2 \\ 4 & 3 & 1 \end{bmatrix}$, $C = \begin{bmatrix} 1 \\ 2 \end{bmatrix}$ and $D = \begin{bmatrix} 4 & 6 & 8 \\ 5 & 7 & 9 \end{bmatrix}$, then which of the sum is defined?

- (a) $A + B$ (b) $C + D$ (c) $B + C$ (d) $B + D$

O (v) If $\begin{bmatrix} 1 & 2 \\ -2 & -b \end{bmatrix} + \begin{bmatrix} a & 4 \\ 3 & 2 \end{bmatrix} = \begin{bmatrix} 5 & 6 \\ 1 & 0 \end{bmatrix}$, then $a^2 + b^2$ is equal to

- (a) 20 (b) 22 (c) 12 (d) 10

Mathematics Paper 1 Questions Caps 2013

Ruy Tojeiro



Mathematics Paper 1 Questions Caps 2013:

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Oswaal Editorial Board, 2024-02-03
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Additive Combinatorics Bela Bajnok, 2018-04-27
Additive Combinatorics A Menu of Research Problems is the first book of its kind to provide readers with an opportunity to actively explore the relatively new field of additive combinatorics. The author has written the book specifically for students of any background and proficiency level from beginners to advanced researchers. It features an extensive menu of research projects that are challenging and engaging at many different levels. The questions are new and unsolved incrementally attainable and designed to be approachable with various methods. The book is divided into five parts which are compared to a meal. The first part is called Ingredients and includes relevant background information about number theory, combinatorics, and group theory. The second part, Appetizers, introduces readers to the book's main subject through samples. The third part, Sides, covers auxiliary functions that appear throughout different chapters. The book's main course, so to speak, is Entrees; it thoroughly investigates a large variety of questions in additive combinatorics by discussing what is already known about them and what remains unsolved. These include maximum and minimum sumset size, spanning sets, critical numbers, and so on. The final part is Pudding and features numerous proofs and results, many of which have never been published. Features: The first book of its kind to explore the subject. Students of any level can use the book as the basis for research projects. The text moves gradually through five distinct parts which is suitable both for beginners without prerequisites and for more advanced students. Includes extensive proofs of propositions and theorems. Each of the introductory chapters contains numerous exercises to help readers.

Modular Forms and Related Topics in Number Theory B. Ramakrishnan, Bernhard Heim, Brundaban

Sahu, 2020-11-24
This book collects the papers presented at the Conference on Number Theory held at the Kerala School of Mathematics, Kozhikode, Kerala, India, from December 10-14, 2018. The conference aimed at bringing the active number theorists and researchers in automorphic forms and allied areas to demonstrate their current research works. This book benefits young research scholars, postdoctoral fellows, and young faculty members working in these areas of research.

Recent Advances in Financial Engineering 2014 Masaaki Kijima, Yukio Muromachi, Takashi Shibata (Associate professor), 2016
Since 2004, the Tokyo Metropolitan University (TMU) has been conducting workshops that serve as a forum for academic researchers and practitioners to exchange ideas and developments in different fields of finance. This book is based on papers presented at the 2014 workshop held in Tokyo on 6-7 November 2014. The chapters address state-of-the-art techniques in mathematical finance and financial engineering. The authors share ideas and information on new methods and up-to-date results of their research in these fields. This book is a must-read for researchers, practitioners, and graduate students in the fields of mathematical finance, quantitative finance, and financial engineering. Provided by publisher.

McGraw-Hill's 500 Organic Chemistry Questions: Ace Your College Exams Estelle K. Meislich, Herbert Meislich, Jacob Sharefkin, 2012-12-21 500 Ways to Achieve Your Best Grades We want you to succeed on your organic chemistry midterm and final exams That's why we've selected these 500 questions to help you study more effectively use your preparation time wisely and get your best grades These questions and answers are similar to the ones you'll find on a typical college exam so you will know what to expect on test day Each question includes explanations for right and wrong answers for your full understanding of the concepts Whether you have been studying all year or are doing a last minute review McGraw Hill's 500 Organic Chemistry Questions will help you achieve the final grade you desire Sharpen your subject knowledge and build your test taking confidence with 500 essential organic chemistry questions Complete answer explanations Coverage of organic chemistry from reactivity to proteins

Advances in Submanifold Theory and Related Topics Ruy Tojeiro, 2025-11-28 This contributed volume collects articles by specialists in submanifold theory geometric analysis and Riemannian geometry with contributors from four continents It is dedicated to Professor Marcos Dajczer whose research and teaching activities have influenced new generations of geometers Some of the works contained in this volume are written by his mathematical descendants and reflect the state of the art and current discussion in the field Now retired from the Institute of Pure and Applied Mathematics IMPA Brazil but still active Professor Dajczer has conducted research in these and other fields contributing to the development of submanifold theory in Brazil He completed his undergraduate studies at the University of Buenos Aires Argentina in 1975 and received his PhD in Mathematics from IMPA in 1980 A postdoctoral period at the State University of New York in Stony Brook marked the beginning of a fruitful collaboration with Prof D Gromoll that lasted several years Prof Dajczer and Dr Ruy Tojeiro are co authors of the textbook *Submanifold Theory Beyond an Introduction* which is available in Springer's Universitext series

Education Policy in England 2010-2024 Rebecca Morris, Thomas Perry, 2025-08-28 This text presents an informative overview of Conservative led education policy over the last 14 years The book provides a broad and detailed picture of the developing education landscape in England during this period highlighting the transformational and sometimes radical reforms that the country has seen Crucially the book draws together contributions from over 40 esteemed education researchers working in the UK The chapters showcase work from a range of experienced and early career researchers ensuring original thought provoking and evidence informed perspectives as we examine the impact of recent policy and explore how it might develop into the future Key thematic areas covered include Restructuring and governing the system Teaching policy practice and professionalism Confronting the challenges of inclusion and inequality Steering and transforming the curriculum and assessment This timely collection will interest students at all levels researchers education professionals and policymakers It sheds important light on this tumultuous era for education policy and will inform those interested in this area for years to come

Annual Report Mpumalanga (South Africa). Department of Education, 2014

Forever Finite Kip K. Sewell, 2023-08-01 INFINITY IS NOT WHAT IT SEEMS Infinity is

commonly assumed to be a logical concept reliable for conducting mathematics describing the Universe and understanding the divine Most of us are educated to take for granted that there exist infinite sets of numbers that lines contain an infinite number of points that space is infinite in expanse that time has an infinite succession of events that possibilities are infinite in quantity and over half of the world s population believes in a divine Creator infinite in knowledge power and benevolence According to this treatise such assumptions are mistaken In reality to be is to be finite The implications of this assessment are profound the Universe and even God must necessarily be finite The author makes a compelling case against infinity refuting its most prominent advocates Any defense of the infinite will find it challenging to answer the arguments laid out in this book But regardless of the reader s position Forever Finite offers plenty of thought provoking material for anyone interested in the subject of infinity from the perspectives of philosophy mathematics science and theology

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