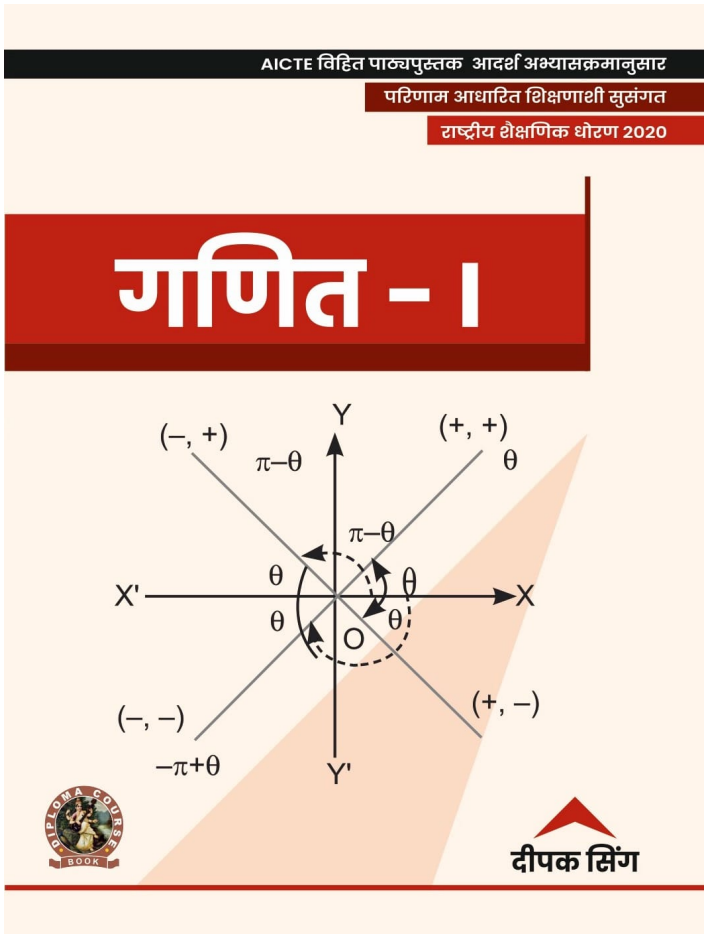

Mathematics-I

Author :	Deepak Singh
ISBN 13 :	978-93-55380-45-6
ISBN 10 :	93-55380-45-3
E-ISBN 13 :	978-93-55380-45-6
Edition :	First
Pages :	188
Type of book :	Paperback
Weight (g) :	300.00
Year :	2025
Language :	Marathi
Publisher :	Khanna Publishing House
Categories :	AICTE Prescribed Textbooks, Ebooks, Marathi Books
Condition Type :	New
Country Origin :	India

Product Description

“Mathematics-I” is included as a paper for the first year Diploma program. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is combined with the concept of outcome-based education. Book cover five Units Trigonometry, Functions and Limit, Differential Calculus, Complex numbers and partial Fraction, Permutation and Combination and Binomial Theorem. In every unit each topic is written in easy and lucid manner. A set of exercise at the end of each unit is clubbed to test the student’s comprehension. Some salient features of the book · Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes. · Book provides lots of real-world applications, interesting facts, QR Code for E-resources, mini projects, curiosity topics, sample specification table etc. · Students and teacher centric subject materials included in book with balanced and chronological manner. · Figures, tables and mathematical equations are inserted to improve clarity of the topics. · Short questions, objective questions and long answer exercises are given for practice of students after every chapter. · Comprehensive synopsis of formulae for a quick revision of the basic principles.

Table of Contents

Chapter 1: Trigonometry. **Chapter 2:** Functions and Limit. **Chapter 3:** Differential Calculus. **Chapter 4:** Complex Numbers and Partial Fraction. **Chapter 5:** Permutation and Combination, Binomial Theorem. **Appendices**

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