

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) ${}^n P_n$ (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 2

Marcel A. Müller



Mathematics Paper 1 2:

Decoding **Mathematics Paper 1 2**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Mathematics Paper 1 2**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Table of Contents Mathematics Paper 1 2

1. Understanding the eBook Mathematics Paper 1 2
 - The Rise of Digital Reading Mathematics Paper 1 2
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Paper 1 2
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematics Paper 1 2
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Paper 1 2
 - Personalized Recommendations
 - Mathematics Paper 1 2 User Reviews and Ratings
 - Mathematics Paper 1 2 and Bestseller Lists

5. Accessing Mathematics Paper 1 2 Free and Paid eBooks
 - Mathematics Paper 1 2 Public Domain eBooks
 - Mathematics Paper 1 2 eBook Subscription Services
 - Mathematics Paper 1 2 Budget-Friendly Options
6. Navigating Mathematics Paper 1 2 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics Paper 1 2 Compatibility with Devices
 - Mathematics Paper 1 2 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics Paper 1 2
 - Highlighting and Note-Taking Mathematics Paper 1 2
 - Interactive Elements Mathematics Paper 1 2
8. Staying Engaged with Mathematics Paper 1 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Paper 1 2
9. Balancing eBooks and Physical Books Mathematics Paper 1 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Paper 1 2
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics Paper 1 2
 - Setting Reading Goals Mathematics Paper 1 2
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics Paper 1 2
 - Fact-Checking eBook Content of Mathematics Paper 1 2
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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