

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) $\frac{17}{25}$

(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) $B + D$

(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) $20 - 1$

(b) 22

(c) 12

(d) 10

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Judd E. Hollander



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Table of Contents Maths Paper1 For Grade9s

1. Understanding the eBook Maths Paper1 For Grade9s
 - The Rise of Digital Reading Maths Paper1 For Grade9s
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper1 For Grade9s
 - 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 Maths Paper1 For Grade9s
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper1 For Grade9s
 - Personalized Recommendations
 - Maths Paper1 For Grade9s User Reviews and Ratings

- Maths Paper1 For Grade9s and Bestseller Lists
- 5. Accessing Maths Paper1 For Grade9s Free and Paid eBooks
 - Maths Paper1 For Grade9s Public Domain eBooks
 - Maths Paper1 For Grade9s eBook Subscription Services
 - Maths Paper1 For Grade9s Budget-Friendly Options
- 6. Navigating Maths Paper1 For Grade9s eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Paper1 For Grade9s Compatibility with Devices
 - Maths Paper1 For Grade9s Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper1 For Grade9s
 - Highlighting and Note-Taking Maths Paper1 For Grade9s
 - Interactive Elements Maths Paper1 For Grade9s
- 8. Staying Engaged with Maths Paper1 For Grade9s
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper1 For Grade9s
- 9. Balancing eBooks and Physical Books Maths Paper1 For Grade9s
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper1 For Grade9s
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper1 For Grade9s
 - Setting Reading Goals Maths Paper1 For Grade9s
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper1 For Grade9s
 - Fact-Checking eBook Content of Maths Paper1 For Grade9s
 - 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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