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*

FULLY SOLVED

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]

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

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

(ii) Let $A = \{1, 2, 3, \ldots n\}$ 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) $\frac{24}{25}$ (b) $\frac{13}{25}$ (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 (b) 22 (c) 12 (d) 10

Department Of Education 2013 Mid Year Mathematic Paper Question

Robert R. Redfield

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Department Of Education 2013 Mid Year Mathematic Paper Question Book Review: Unveiling the Power of Words

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Table of Contents Department Of Education 2013 Mid Year Mathematic Paper Question

1. Understanding the eBook Department Of Education 2013 Mid Year Mathematic Paper Question
    - The Rise of Digital Reading Department Of Education 2013 Mid Year Mathematic Paper Question
    - Advantages of eBooks Over Traditional Books
2. Identifying Department Of Education 2013 Mid Year Mathematic Paper Question
    - 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 Department Of Education 2013 Mid Year Mathematic Paper Question
    - User-Friendly Interface
4. Exploring eBook Recommendations from Department Of Education 2013 Mid Year Mathematic Paper Question
    - Personalized Recommendations
    - Department Of Education 2013 Mid Year Mathematic Paper Question User Reviews and Ratings
    - Department Of Education 2013 Mid Year Mathematic Paper Question and Bestseller Lists

5. Accessing Department Of Education 2013 Mid Year Mathematic Paper Question Free and Paid eBooks
    - Department Of Education 2013 Mid Year Mathematic Paper Question Public Domain eBooks
    - Department Of Education 2013 Mid Year Mathematic Paper Question eBook Subscription Services
    - Department Of Education 2013 Mid Year Mathematic Paper Question Budget-Friendly Options
6. Navigating Department Of Education 2013 Mid Year Mathematic Paper Question eBook Formats
    - ePub, PDF, MOBI, and More
    - Department Of Education 2013 Mid Year Mathematic Paper Question Compatibility with Devices
    - Department Of Education 2013 Mid Year Mathematic Paper Question Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Department Of Education 2013 Mid Year Mathematic Paper Question
    - Highlighting and Note-Taking Department Of Education 2013 Mid Year Mathematic Paper Question
    - Interactive Elements Department Of Education 2013 Mid Year Mathematic Paper Question
8. Staying Engaged with Department Of Education 2013 Mid Year Mathematic Paper Question
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Department Of Education 2013 Mid Year Mathematic Paper Question
9. Balancing eBooks and Physical Books Department Of Education 2013 Mid Year Mathematic Paper Question
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Department Of Education 2013 Mid Year Mathematic Paper Question
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Department Of Education 2013 Mid Year Mathematic Paper Question
    - Setting Reading Goals Department Of Education 2013 Mid Year Mathematic Paper Question
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Department Of Education 2013 Mid Year Mathematic Paper Question
    - Fact-Checking eBook Content of Department Of Education 2013 Mid Year Mathematic Paper Question
    - 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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