
Maximum Marks: 80

Time allowed: Two and half hours

Answers to this Paper must be written on the paper provided separately.

You will not be allowed to write during first 15 minutes.

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

Attempt all questions from Section A and any four questions from Section B.
All working, including rough work, must be clearly shown, and must be done on the same sheet as the rest of the answer.

Omission of essential working will result in loss of marks.

The intended marks for questions or parts of questions are given in brackets []

Mathematical tables and graph papers are provided.

SECTION A (40 Marks)

(Attempt all questions from this Section.)

Question 1

Choose the correct answers to the questions from the given options.

[15]

(Do not copy the questions, write the correct answers only.)

(i) If $\begin{bmatrix} 2 & 0 \\ 0 & 4 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 2 \\ -8 \end{bmatrix}$, the value of x and y respectively are:

(a) 1, - 2

(b) - 2, 1

(c) 1, 2

(d) - 2, - 1

Answer: (a)

Explanation:

$$2x + 0y = 2$$

$$x = 1$$

$$0x + 4y = - 8$$

$$y = - 2$$

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S Ben Porath



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Table of Contents Maths Question Paper December 23

1. Understanding the eBook Maths Question Paper December 23
 - The Rise of Digital Reading Maths Question Paper December 23
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Question Paper December 23
 - 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 Question Paper December 23
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Question Paper December 23
 - Personalized Recommendations
 - Maths Question Paper December 23 User Reviews and Ratings
 - Maths Question Paper December 23 and Bestseller Lists
5. Accessing Maths Question Paper December 23 Free and Paid eBooks

- Maths Question Paper December 23 Public Domain eBooks
- Maths Question Paper December 23 eBook Subscription Services
- Maths Question Paper December 23 Budget-Friendly Options
- 6. Navigating Maths Question Paper December 23 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Question Paper December 23 Compatibility with Devices
 - Maths Question Paper December 23 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Question Paper December 23
 - Highlighting and Note-Taking Maths Question Paper December 23
 - Interactive Elements Maths Question Paper December 23
- 8. Staying Engaged with Maths Question Paper December 23
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Question Paper December 23
- 9. Balancing eBooks and Physical Books Maths Question Paper December 23
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Question Paper December 23
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Question Paper December 23
 - Setting Reading Goals Maths Question Paper December 23
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Question Paper December 23
 - Fact-Checking eBook Content of Maths Question Paper December 23
 - 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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