

Mathematics

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 100

Pass Marks: 35 (For partial students only)

Attempt all questions.

Group 'A'

5 × 3 × 2 = 30

1. a. Find the truth value of the biconditional statement of p and q where p represents '2 is an even number' and q represents '4 is an even number'.
- b. If $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = 2x - 3$, find f^{-1}
- c. Test the even or odd nature and symmetricity of the function $y = 8x^2$
2. a. Express $\tan^{-1}x$ in terms of inverse of sin function.
- b. Prove by mathematical induction: $1 + 3 + 5 + \dots + (2n - 1) = n^2$
- c. Find the adjoint of the matrix $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
3. a. Using Cramer's rule, solve: $3x + 2y + 9 = 0$, $2x - 3y + 6 = 0$
- b. Express $\sqrt{3} + i$ in polar form.
- c. If one root of the equation $ax^2 + bx + c = 0$ be twice the other, show that $2b^2 = 9ac$
4. a. Find the equation of the straight line that has y -intercept '2' and is parallel to $4x - 8y + 3 = 0$
- b. Find the equation of the circle which passes through origin and makes equal intercepts on both axes.
- c. Evaluate: $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

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Table of Contents Smathematics Examination Question Paper 2012

1. Understanding the eBook Smathematics Examination Question Paper 2012
 - The Rise of Digital Reading Smathematics Examination Question Paper 2012
 - Advantages of eBooks Over Traditional Books
2. Identifying Smathematics Examination Question Paper 2012
 - 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 Smathematics Examination Question Paper 2012
 - User-Friendly Interface
4. Exploring eBook Recommendations from Smathematics Examination Question Paper 2012
 - Personalized Recommendations
 - Smathematics Examination Question Paper 2012 User Reviews and Ratings
 - Smathematics Examination Question Paper 2012 and Bestseller Lists
5. Accessing Smathematics Examination Question Paper 2012 Free and Paid eBooks

- Smathematics Examination Question Paper 2012 Public Domain eBooks
 - Smathematics Examination Question Paper 2012 eBook Subscription Services
 - Smathematics Examination Question Paper 2012 Budget-Friendly Options
6. Navigating Smathematics Examination Question Paper 2012 eBook Formats
- ePub, PDF, MOBI, and More
 - Smathematics Examination Question Paper 2012 Compatibility with Devices
 - Smathematics Examination Question Paper 2012 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Smathematics Examination Question Paper 2012
 - Highlighting and Note-Taking Smathematics Examination Question Paper 2012
 - Interactive Elements Smathematics Examination Question Paper 2012
8. Staying Engaged with Smathematics Examination Question Paper 2012
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Smathematics Examination Question Paper 2012
9. Balancing eBooks and Physical Books Smathematics Examination Question Paper 2012
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Smathematics Examination Question Paper 2012
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Smathematics Examination Question Paper 2012
- Setting Reading Goals Smathematics Examination Question Paper 2012
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Smathematics Examination Question Paper 2012
- Fact-Checking eBook Content of Smathematics Examination Question Paper 2012
 - 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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