

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: $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

Contd...

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Maths Pquestion Paper Grade 1june Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Maths Pquestion Paper Grade 1june**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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Table of Contents Maths Pquestion Paper Grade 1june

1. Understanding the eBook Maths Pquestion Paper Grade 1june
 - The Rise of Digital Reading Maths Pquestion Paper Grade 1june
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Pquestion Paper Grade 1june
 - 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 Pquestion Paper Grade 1june
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Pquestion Paper Grade 1june
 - Personalized Recommendations
 - Maths Pquestion Paper Grade 1june User Reviews and Ratings
 - Maths Pquestion Paper Grade 1june and Bestseller Lists

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