

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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Rose Army



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Olympiad Champs Mathematics Class 1 with Past Olympiad Questions 3rd Edition Disha Experts, 2020-04-18

Cambridge Primary Mathematics Stage 5 Teacher's Resource with CD-ROM Emma Low, 2014-05-22 This series is endorsed by Cambridge International Examinations and is part of Cambridge Maths This teacher s resource for stage 5 will fully support teachers to get the best from their learners and effectively use the learner s book and games book Detailed lesson plans based on the course objectives are offered along with additional activity ideas Teachers will be guided to formatively assess their learners understanding They will have the confidence to engage the class in mathematical discussion and encourage learners to justify answers and make connections between ideas Answers to the learner s book and all photocopiable sheets required are provided All book content plus more is included on the CD for convenience **Oswaal**

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Table of Contents Maths Past Papers And Answers Friday 7 Nov 2014

1. Understanding the eBook Maths Past Papers And Answers Friday 7 Nov 2014
 - The Rise of Digital Reading Maths Past Papers And Answers Friday 7 Nov 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Past Papers And Answers Friday 7 Nov 2014
 - 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 Past Papers And Answers Friday 7 Nov 2014
 - User-Friendly Interface

4. Exploring eBook Recommendations from Maths Past Papers And Answers Friday 7 Nov 2014
 - Personalized Recommendations
 - Maths Past Papers And Answers Friday 7 Nov 2014 User Reviews and Ratings
 - Maths Past Papers And Answers Friday 7 Nov 2014 and Bestseller Lists
5. Accessing Maths Past Papers And Answers Friday 7 Nov 2014 Free and Paid eBooks
 - Maths Past Papers And Answers Friday 7 Nov 2014 Public Domain eBooks
 - Maths Past Papers And Answers Friday 7 Nov 2014 eBook Subscription Services
 - Maths Past Papers And Answers Friday 7 Nov 2014 Budget-Friendly Options
6. Navigating Maths Past Papers And Answers Friday 7 Nov 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Past Papers And Answers Friday 7 Nov 2014 Compatibility with Devices
 - Maths Past Papers And Answers Friday 7 Nov 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Past Papers And Answers Friday 7 Nov 2014
 - Highlighting and Note-Taking Maths Past Papers And Answers Friday 7 Nov 2014
 - Interactive Elements Maths Past Papers And Answers Friday 7 Nov 2014
8. Staying Engaged with Maths Past Papers And Answers Friday 7 Nov 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Past Papers And Answers Friday 7 Nov 2014
9. Balancing eBooks and Physical Books Maths Past Papers And Answers Friday 7 Nov 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Past Papers And Answers Friday 7 Nov 2014
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Past Papers And Answers Friday 7 Nov 2014
 - Setting Reading Goals Maths Past Papers And Answers Friday 7 Nov 2014
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Maths Past Papers And Answers Friday 7 Nov 2014
 - Fact-Checking eBook Content of Maths Past Papers And Answers Friday 7 Nov 2014
 - 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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