

MATHEMATICS

Paper & Solution

Time: 3 Hrs.

Max. Marks: 90

General Instructions:

(i) All questions are compulsory.

(ii) The question paper consists of 31 questions divided into four sections – A, B, C and D.

(iii) Section A contains 4 questions of 1 mark each. Section B contains 6 questions of 2 marks each, Section C contains 10 questions of 3 marks each and Section D contains 11 questions of 4 marks each.

(iv) Use of calculators is not permitted.

SECTION – A

Question numbers 1 to 4 carry 1 mark each.

1. If the quadratic equation $px^2 - 2\sqrt{5}px + 15 = 0$ has two equal roots then find the value of p .**Solution:**

Given quadratic equation is,

$$px^2 - 2\sqrt{5}px + 15 = 0$$

Here, $a = p$, $b = 2\sqrt{5}p$, $c = 15$ For real equal roots, discriminant $= 0$

$$\therefore b^2 - 4ac = 0$$

$$\therefore (2\sqrt{5}p)^2 - 4p(15) = 0$$

$$\therefore 20p^2 - 60p = 0$$

$$\therefore 20p(p - 3) = 0$$

$$\therefore p = 3 \text{ or } p = 0$$

But, $p = 0$ is not possible.

$$\therefore p = 3$$

2. In the following figure, a tower AB is 20 m high and BC, its shadow on the ground, is $20\sqrt{3}$ m long. Find the Sun's altitude.

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J. Andrew Ross



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Table of Contents Maths Ppe Paper 2015

1. Understanding the eBook Maths Ppe Paper 2015
 - The Rise of Digital Reading Maths Ppe Paper 2015
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Ppe Paper 2015
 - 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 Ppe Paper 2015
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Ppe Paper 2015
 - Personalized Recommendations
 - Maths Ppe Paper 2015 User Reviews and Ratings
 - Maths Ppe Paper 2015 and Bestseller Lists
5. Accessing Maths Ppe Paper 2015 Free and Paid eBooks

- Maths Ppe Paper 2015 Public Domain eBooks
- Maths Ppe Paper 2015 eBook Subscription Services
- Maths Ppe Paper 2015 Budget-Friendly Options
- 6. Navigating Maths Ppe Paper 2015 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Ppe Paper 2015 Compatibility with Devices
 - Maths Ppe Paper 2015 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Ppe Paper 2015
 - Highlighting and Note-Taking Maths Ppe Paper 2015
 - Interactive Elements Maths Ppe Paper 2015
- 8. Staying Engaged with Maths Ppe Paper 2015
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Ppe Paper 2015
- 9. Balancing eBooks and Physical Books Maths Ppe Paper 2015
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Ppe Paper 2015
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Ppe Paper 2015
 - Setting Reading Goals Maths Ppe Paper 2015
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Ppe Paper 2015
 - Fact-Checking eBook Content of Maths Ppe Paper 2015
 - 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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