

CLASS 10 - MATHEMATICS

Time Allowed: 3 hours

Maximum Marks: 80

General Instructions:

1. This question paper contains two parts A and B.
2. Both Part A and Part B have internal choices.

Part – A consists 20 questions

1. Questions 1-16 carry 1 mark each. Internal choice is provided in 5 questions.
2. Questions 17-20 are based on the case study. Each case study has 5 case-based sub-parts. An examinee is to attempt any 4 out of 5 sub-parts.

Part – B consists 16 questions

1. Question No 21 to 26 are Very short answer type questions of 2 mark each.
2. Question No 27 to 33 are Short Answer Type questions of 3 marks each
3. Question No 34 to 36 are Long Answer Type questions of 5 marks each.
4. Internal choice is provided in 2 questions of 2 marks, 2 questions of 3 marks and 1 question of 5 marks.

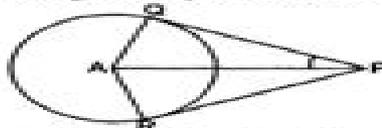
Part-A

1. Show that 12^n cannot end with digit 0 or 5 for any natural number n. [1]

OR

Without actually performing the long division, Check whether $\frac{64}{455}$ will have the terminating decimal expansion or non-terminating repeating decimal expansion.

2. Write the discriminant of the quadratic equation $x^2 + 4x + q = 0$ [1]
3. Does the pair of the linear equation have no solution? justify your answer. [1]
- $3x + y - 3 = 0$, $2x + \frac{2}{3}y = 2$
4. In figure, PQ and PR are tangents to circle with centre A. If $\angle QPA = 27^\circ$, then find $\angle QAR$. [1]



5. Find the Arithmetic Mean of $(a - b)$ and $(a + b)$. [1]

OR

Find the 10th term of AP: 10.0, 10.5, 11.0, 11.5,

6. Find the Arithmetic Mean of 13 and 19. [1]
7. If $(x^2 + y^2)(a^2 + b^2) = (ax + by)^2$. Prove that $\frac{x}{a} = \frac{y}{b}$ [1]

OR

State whether the following equation is quadratic equation in x?

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Sebastian Brünink



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Table of Contents Mycbseguide Class Maths Sample Papers

1. Understanding the eBook Mycbseguide Class Maths Sample Papers
 - The Rise of Digital Reading Mycbseguide Class Maths Sample Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Mycbseguide Class Maths Sample Papers
 - 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 Mycbseguide Class Maths Sample Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mycbseguide Class Maths Sample Papers
 - Personalized Recommendations
 - Mycbseguide Class Maths Sample Papers User Reviews and Ratings

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

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
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14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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