

SUBJECT: MATHEMATICS  
CLASS : X

MAX. MARKS : 90  
DURATION : 3 HRS

**General Instructions:**

- All questions are compulsory.
- Question paper is divided into four sections: Section A consists 4 questions each carry 1 marks, Sections B consists 6 questions each carry 2 marks, Sections C consists 10 questions each carry 3 marks and Sections D consists 11 questions each carry 4 marks.
- There is no overall choice.
- Use of Calculator is prohibited.

**SECTION – A**

- Find the value of  $k$  for which equation  $9x^2 + 8kx + 8 = 0$  has equal roots.
- In a circle with centre  $O$ ,  $AB$  and  $CD$  are two diameters perpendicular to each other. Find the length of chord  $AC$ .
- A tower subtends an angle of  $30^\circ$  at a point on the same level as its foot. At a second point 'h' metres above the first, the depression of the foot of the tower is  $60^\circ$ . Find the height of the tower.
- Two different dice are tossed together. Find the probability that the product of the two numbers on the top of the dice is 8.

**SECTION – B**

- Solve the equation:  $4x^2 - 4a^2x + (a^4 - b^4) = 0$
- In the below figure, find the actual length of sides of  $\triangle OTP$ .



- In the above sided figure, find the value of  $x$ .
- The sum of 4<sup>th</sup> term and 8<sup>th</sup> term of an AP is 24 and the sum of 6<sup>th</sup> and 10<sup>th</sup> terms is 44. Find the AP.
- If the points  $A(-3, 0)$ ,  $B(1, -3)$  and  $C(4, 1)$  are the vertices of an isosceles right-angled triangle, find the area of this triangle.
- For what value of  $p$  are the points  $A(-3, 9)$ ,  $B(2, p)$  and  $C(4, -5)$  are collinear.

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**JL Elias**



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## **Table of Contents Cbse Sample Paper Sa2 Class 10**

1. Understanding the eBook Cbse Sample Paper Sa2 Class 10
  - The Rise of Digital Reading Cbse Sample Paper Sa2 Class 10
  - Advantages of eBooks Over Traditional Books
2. Identifying Cbse Sample Paper Sa2 Class 10
  - 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 Cbse Sample Paper Sa2 Class 10
  - User-Friendly Interface
4. Exploring eBook Recommendations from Cbse Sample Paper Sa2 Class 10
  - Personalized Recommendations
  - Cbse Sample Paper Sa2 Class 10 User Reviews and Ratings
  - Cbse Sample Paper Sa2 Class 10 and Bestseller Lists
5. Accessing Cbse Sample Paper Sa2 Class 10 Free and Paid eBooks

- Cbse Sample Paper Sa2 Class 10 Public Domain eBooks
  - Cbse Sample Paper Sa2 Class 10 eBook Subscription Services
  - Cbse Sample Paper Sa2 Class 10 Budget-Friendly Options
6. Navigating Cbse Sample Paper Sa2 Class 10 eBook Formats
    - ePub, PDF, MOBI, and More
    - Cbse Sample Paper Sa2 Class 10 Compatibility with Devices
    - Cbse Sample Paper Sa2 Class 10 Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Cbse Sample Paper Sa2 Class 10
    - Highlighting and Note-Taking Cbse Sample Paper Sa2 Class 10
    - Interactive Elements Cbse Sample Paper Sa2 Class 10
  8. Staying Engaged with Cbse Sample Paper Sa2 Class 10
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Cbse Sample Paper Sa2 Class 10
  9. Balancing eBooks and Physical Books Cbse Sample Paper Sa2 Class 10
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Cbse Sample Paper Sa2 Class 10
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Cbse Sample Paper Sa2 Class 10
    - Setting Reading Goals Cbse Sample Paper Sa2 Class 10
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Cbse Sample Paper Sa2 Class 10
    - Fact-Checking eBook Content of Cbse Sample Paper Sa2 Class 10
    - 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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