

# ICSE EXAMINATION PAPER - 2024

## MATHEMATICS

### Class-10<sup>th</sup>

### (Solved)

*Maximum Marks: 80*

*Time allowed: Two and half hours*

*Answer to this Paper must be written on the paper provided separately.*

*You will not be allowed to write during first 15 minutes.*

*This time is to be spent in reading the question paper.*

*The time given at the head of this Paper is the time allowed for writing the answers.*

*Attempt all question from Section A and any four questions from Section B.*

*All working, including rough work, must be clearly shown, and must be done on the same sheet as the rest of the answer.*

*Omission of essential working will result in loss of marks.*

*The intended marks for questions or parts questions are given in brackets [ ]*

*Mathematical tables and graph papers are to be provided by the school.*

#### SECTION-A (40 MARKS)

*(Attempt all questions from this Section.)*

##### Question 1

[15]

Choose the correct answers to the questions from the given options.

(Do not copy the questions, write the correct answers only.)

- (i) For an Intra-state sale, the CGST paid by a dealer to the Central government is ₹ 120. If the marked price of the article is ₹ 2000, the rate of GST is:  
 (a) 6% (b) 10%  
 (c) 12% (d) 16.67%
- (ii) What must be subtracted from the polynomial  $x^3 + x^2 - 2x + 1$ , so that the result is exactly divisible by  $(x - 3)^2$ ?  
 (a) -31 (b) -30  
 (c) 30 (d) 31
- (iii) The roots of the quadratic equation  $px^2 - qx + r = 0$  are real and equal if:  
 (a)  $p^2 = 4qr$  (b)  $q^2 = 4pr$   
 (c)  $-q^2 = 4pr$  (d)  $p^2 > 4qr$
- (iv) If matrix  $A = \begin{bmatrix} 2 & 2 \\ 0 & 2 \end{bmatrix}$  and  $A^2 = \begin{bmatrix} 4 & x \\ 0 & 4 \end{bmatrix}$ , then the value of  $x$  is:  
 (a) 2 (b) 4  
 (c) 8 (d) 10
- (v) The median of the following observations arranged in ascending order is 64. Find the value of  $x$ :  
 27, 31, 46, 52,  $x$ ,  $x + 4$ , 71, 79, 85, 90  
 (a) 60 (b) 61  
 (c) 62 (d) 66
- (vi) Points A ( $x, y$ ), B (3, -2) and C (4, -5) are collinear. The value of  $y$  in terms of  $x$  is:  
 (a)  $2x - 11$  (b)  $11 - 3x$   
 (c)  $3x - 7$  (d)  $7 - 3x$

- (vii) The given table shows the distance covered and the time taken by a train moving at a uniform speed along a straight track.

|                 |    |     |     |
|-----------------|----|-----|-----|
| Distance (in m) | 60 | 90  | $y$ |
| Time (in s)     | 2  | $x$ | 5   |

The values of  $x$  and  $y$  are:

- (a)  $x = 4, y = 150$  (b)  $x = 3, y = 100$   
 (c)  $x = 4, y = 100$  (d)  $x = 3, y = 150$

- (viii) The 7<sup>th</sup> term of the given Arithmetic Progression (A.P.):

$$\frac{1}{x}, \left(\frac{1}{x} + 1\right), \left(\frac{1}{x} + 2\right), \dots$$

- (a)  $\left(\frac{1}{x} + 6\right)$  (b)  $\left(\frac{1}{x} + 7\right)$   
 (c)  $\left(\frac{1}{x} + 8\right)$  (d)  $\left(\frac{1}{x} + 7^2\right)$

- (ix) The sum invested to purchase 15 shares of a company of nominal value ₹ 75 available at a discount of 20% is:

- (a) ₹ 60 (b) ₹ 90  
 (c) ₹ 1350 (d) ₹ 900

- (x) The circumcentre of a triangle is the point which is:

- (a) at equal distance from the three sides of the triangle.  
 (b) at equal distance from the three vertices of the triangle.  
 (c) the point of intersection of the three medians.  
 (d) the point of intersection of the three altitudes of the triangle.

- (xi) Statement 1:  $\sin^2 \theta + \cos^2 \theta = 1$

Statement 2:  $\operatorname{cosec}^2 \theta + \cot^2 \theta = 1$

Which of the following is valid?

- (a) only 1 (b) only 2  
 (c) both 1 and 2 (d) neither 1 nor 2

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## **Table of Contents Icse Board Question Papers**

1. Understanding the eBook Icse Board Question Papers
  - The Rise of Digital Reading Icse Board Question Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Icse Board Question 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 Icse Board Question Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Icse Board Question Papers
  - Personalized Recommendations
  - Icse Board Question Papers User Reviews and Ratings
  - Icse Board Question Papers and Bestseller Lists
5. Accessing Icse Board Question Papers Free and Paid eBooks
  - Icse Board Question Papers Public Domain eBooks
  - Icse Board Question Papers eBook Subscription Services
  - Icse Board Question Papers Budget-Friendly Options

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