

# 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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**JA Banks**



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