TOWNS.

# SAMPLE QUESTION PAPER 1

A Highly Simulated Sample Question Paper for ISC Class XII

# MATHEMATICS (Fully Solved)

#### **CENERAL INSTRUCTIONS**

- The Question Paper consists of three sections A. B and C.
- Candidates are required to attempt all questions from Section A and all questions either from Section B or Section C.
- Section A Internal choice has been provided in two questions of two marks each, two questions of four marks each and two questions of six marks each.
- 4. Section B Internal choice has been provided in one question of two marks and one question of four marks.
- Section C Internal choice has been provided in one question of two marks and one question of
- All working, including rough work, should be done on the same sheet as, and adjacent to the rest of the answer.
- The intended marks for questions or parts of questions are given in brackets [].
- 8. Mathematical tables and graph papers are provided.

Time: 3 Mount

Adapt. Adaptes: 1973

# Section A (65 Marks)

- In sub-parts (i) to (x) choose the correct option and in sub-parts (xi) to (xv), answer the questions as instructed.  $10.9 \times 10^{-1}$
- $\times$  (i) If the binary operation \* defined on Q, is defined as a \* b = 2a + b ab,  $\forall a, b \in Q$ , then the value of 3 = 4 is-

(b) - 2

(c) 3

- (d) 3
- (ii) Let  $A = \{1, 2, 3, ..., n\}$  and  $B = \{a, b\}$ . Then, the number of surjection from A into B is (b)  $2^{n} - 2$  $(c) 2^{n} - 1$ (d) None of these
- (iii) Value of  $\sin \left( 2 \sin^{-1} \frac{3}{5} \right)$  is
  - (a)  $\frac{12}{24}$
- , (b) 24

- (iv) If  $A = \begin{bmatrix} 2 & 3 \\ 1 & 2 \end{bmatrix}$ ,  $B = \begin{bmatrix} 1 & 3 & 2 \\ 4 & 3 & 1 \end{bmatrix}$ ,  $C = \begin{bmatrix} 1 \\ 2 \end{bmatrix}$  and  $D = \begin{bmatrix} 4 & 6 & 8 \\ 5 & 7 & 9 \end{bmatrix}$ , then which of the sum is defined? (d)B+D
- (c) B + C (d) B + C (d)



(d) 10



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