

# SAMPLE QUESTION PAPER 1

A Highly Simulated Sample Question Paper for ISC Class XII

## MATHEMATICS (Fully Solved)

### GENERAL INSTRUCTIONS

1. The Question Paper consists of three sections A, B and C.
2. Candidates are required to attempt all questions from **Section A** and all questions **either** from **Section B** or **Section C**.
3. **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.
5. **Section C**: Internal choice has been provided in one question of two marks and one question of four marks.
6. All working, including rough work, should be done on the same sheet as, and adjacent to the rest of the answer.
7. The intended marks for questions or parts of questions are given in brackets [ ].
8. Mathematical tables and graph papers are provided.

Time : 3 Hours

Max. Marks : 80

### Section A (65 Marks)

1. In sub-parts (i) to (x) choose the correct option and in sub-parts (xi) to (xv), answer the questions as instructed. [15 × 1]

✓ (i) If the binary operation  $*$  defined on  $\mathbb{Q}$ , is defined as  $a * b = 2a + b - ab$ ,  $\forall a, b \in \mathbb{Q}$ , then the value of  $3 * 4$  is:

- (a) 2 (b) -2 (c) 3 (d) -3

(ii) Let  $A = \{1, 2, 3, \dots, n\}$  and  $B = \{a, b\}$ . Then, the number of surjection from  $A$  into  $B$  is

- (a)  ${}^n P_n$  (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)  $\frac{12}{25}$  (b)  $\frac{24}{25}$  (c)  $\frac{13}{25}$  (d)  $\frac{17}{25}$

○ (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?

- (a)  $A + B$  (b)  $C + D$  (c)  $B + C$  (d)  $B + D$

○ (v) If  $\begin{bmatrix} 1 & 2 \\ -2 & -b \end{bmatrix} + \begin{bmatrix} a & 4 \\ 3 & 2 \end{bmatrix} = \begin{bmatrix} 5 & 6 \\ 1 & 0 \end{bmatrix}$ , then  $a^2 + b^2$  is equal to

- (a) 20 (b) 22 (c) 12 (d) 10

FULLY SOLVED

# Maths Paper1 Nated

**SA Adler**



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*Projects and Publications of the National Applied Mathematics Laboratories*, 1964      **National Subcommissions of ICMI and their Role in the Reform of Mathematics Education** Alexander Karp, 2019-05-09 ICMI or IMUK was founded in 1908 and initiated the establishment of national subcommissions to launch national activities in response to the IMUK agenda and to promote the reform proposals within each member country While ICMI's activities were thoroughly studied the activities of the national subcommissions are studied only very marginally In the meantime their work has been of major importance both because of their role in exploring and documenting the development of mathematics education at the beginning of the 20th century and because of the changes and new ideas which they brought to their countries Importantly even if some results of their activities were analyzed within their countries in the corresponding languages almost nothing is known internationally This book is planned to deepen our knowledge on at least some of the national subcommissions The book will interest both researchers and others interested in mathematics education and its development      *A Collection of Cambridge Mathematical Examination Papers: Papers in pure mathematics* John Martin Frederick Wright, 1833

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researchers students and philosophers and historians of mathematics      *Publications of the National Bureau of Standards, 1966-1967* United States. National Bureau of Standards, Betty L. Oberholtzer, 1969      **Fundamental Conceptions of Modern Mathematics** Robert P. Richardson, Edward H. Landis, 1916      Queen's Papers in Pure and Applied Mathematics Queen's University (Kingston, Ont.), 1966      Applied And Industrial Mathematics In Italy Ii - Selected Contributions From The 8th Simai Conference Vincenzo Cutello, Giorgio Fotia, Luigia Puccio, 2007-08-17

Industrial mathematics is evolving into an important branch of mathematics Mathematicians in particular in Italy are becoming increasingly aware of this new trend and are engaged in bridging the gap between highly specialized mathematical research and the emerging demand for innovation from industry The contributions in this volume provide both R D workers in industry with a general view of existing skills and academics with state of the art applications of mathematics to real world problems which may also be incorporated in advanced courses      **Technical News Bulletin of the National Bureau of Standards** United States. National Bureau of Standards, 1946      *Teaching Secondary Mathematics* Douglas K. Brumbaugh, David Rock, 2006

Grounded in research and theory this text for secondary mathematics methods courses provides useful models of how concepts typically found in a secondary mathematics curriculum can be delivered so that students develop a positive attitude about learning and using mathematics in their daily lives      *Fundamental Conceptions of Modern Mathematics ...: Variables and quantities, with a discussion of the general conception of functional relation. 1916* Robert Porterfield Richardson, Edward Horace Landis, 1916      Messenger of mathematics ,1880      FTCE Mathematics 6-12 (026) 3rd Ed., Book + Online Sandra Rush, 2018-10-20

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