

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]

X (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) $\frac{17}{25}$

O (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) $B + D$

O (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

Maths Paper1 Nated

A Gutmann



Maths Paper1 Nated:

Monthly Catalog of United States Government Publications United States. Superintendent of Documents,1990

Projects and Publications of the National Applied Mathematics Laboratories ,1964 *Resources in Education* ,2000-10 **Publications of the National Bureau of Standards** United States. National Bureau of Standards,1966 **A Collection of Cambridge Mathematical Examination Papers: Papers in pure mathematics** John Martin Frederick Wright,1833 **Publications of the National Bureau of Standards ... Catalog** United States. National Bureau of Standards,1966 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 *Explanation and Proof in Mathematics* Gila Hanna,Hans Niels Jahnke,Helmut Pulte,2009-12-04 In the four decades since Imre Lakatos declared mathematics a quasi empirical science increasing attention has been paid to the process of proof and argumentation in the field a development paralleled by the rise of computer technology and the mounting interest in the logical underpinnings of mathematics *Explanation and Proof in Mathematics* assembles perspectives from mathematics education and from the philosophy and history of mathematics to strengthen mutual awareness and share recent findings and advances in their interrelated fields With examples ranging from the geometrists of the 17th century and ancient Chinese algorithms to cognitive psychology and current educational practice contributors explore the role of refutation in generating proofs the varied links between experiment and deduction the use of diagrammatic thinking in addition to pure logic and the uses of proof in mathematics education including a critique of authoritative versus authoritarian teaching styles A sampling of the coverage The conjoint origins of proof and theoretical physics in ancient Greece Proof as bearers of mathematical knowledge Bridging knowing and proving in mathematical reasoning The role of mathematics in long term cognitive development of reasoning Proof as experiment in the work of Wittgenstein Relationships between mathematical proof problem solving and explanation *Explanation and Proof in Mathematics* is certain to attract a wide range of readers including mathematicians mathematics education professionals researchers students and philosophers and historians of mathematics **11 Year Solved Papers for Class 9 All India**

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Queen's University (Kingston, Ont.), 1966

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