

# 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

# Department Of Education 2013 Mid Year Mathematic Paper 1 Question

**Victor M. Corman**



## **Department Of Education 2013 Mid Year Mathematic Paper 1 Question:**

**Curriculum, Instruction, and Assessment** Sandra L. Stacki, Micki M. Caskey, Steven B. Mertens, 2020-05-01 The lives of middle school students are dynamic and their needs and desires are always evolving They experience more complicated lives as influences of the broader society including popular media and technology immigration and cultural diversity amplified political divisiveness and bullying effect their daily lives both in and out of school These influences have contributed to the need for more socialemotional support and the desire of students and teachers alike to find and express their voices Since the publication of the 2002 Handbook volume focusing on curriculum instruction and assessment the ideas approaches and practices of middle school educators and researchers have also needed to evolve and change in many ways to meet these changing realities and the needs of students teachers and schools This volume includes chapters focusing on varying aspects of curriculum instruction and assessment currently being implemented in middle grades classrooms across the country *The Encyclopedia of Middle Grades Education (2nd ed.)* Steven B. Mertens, Micki M. Caskey, Nancy Flowers, 2016-08-01 The second edition of The Encyclopedia of Middle Grades Education has been revised updated and expanded since its original publication in 2005 The Encyclopedia is a comprehensive overview of the field it contains alphabetically organized entries that address important concepts ideas terms people organizations publications and research studies specifically related to middle grades education This edition contains over 210 entries from nearly 160 expert contributors this is a 25% increase in the number of entries over the first edition The Encyclopedia is aimed at a general audience including undergraduate students in middle level teacher preparation programs graduate students higher education faculty and practitioners and administrators The comprehensive list of entries are comprised of both short entries 500 words and longer entries 2000 words A significant number of entries appearing in the first edition have been revised and updated Citations and references are provided for each entry

**Realising Innovative Partnerships in Educational Research** Rachel McNae, Bronwen Cowie, 2017-07-18 Realising Innovative Partnerships in Educational Research examines the underlying principles and actions that support the development of and engagement in partnerships in educational research With social justice at its core the work in this book represents various architectures of innovation whereby new ways of thinking about partnership research are proposed and practices of teaching and learning are reconciled or not with existing education contexts and practices With contributions from educational researchers and practitioners from New Zealand and international commentaries provided by established scholars in the field the book draws together key experiences and insights from students teachers community members and researchers in tertiary community school and early childhood settings The research in this book seeks to address a gap in our understanding extending knowledge beyond simply the benefits of partnership work to examine how successful partnerships can be initiated enacted and sustained over time This book invites reflection on the following provocations Why engage in partnerships for educational research How has

this happened in the past and what needs to happen for the future What is unique about the New Zealand context and what might researchers in other countries learn from our collaborative and culturally responsive research methodologies What could be some of the underlying principles that support the development of and engagement in collaborative research How do we evaluate the effectiveness of research partnerships in education to shift the focus to the future Parliamentary Debates, House of the People India. Parliament. Lok Sabha,2013-03-06 *tyhe educational times* ,1878 *Journal of Developmental Education* ,2017 **Statistics** Robin H. Lock,Patti Frazer Lock,Kari Lock Morgan,Eric F. Lock,Dennis F. Lock,2016-12-01 Statistics Unlocking the Power of Data 2nd Edition continues to utilize these intuitive methods like randomization and bootstrap intervals to introduce the fundamental idea of statistical inference These methods are brought to life through authentically relevant examples enabled through easy to use statistical software and are accessible at very early stages of a course The program includes the more traditional methods like t tests chi square tests etc but only after students have developed a strong intuitive understanding of inference through randomization methods The focus throughout is on data analysis and the primary goal is to enable students to effectively collect data analyze data and interpret conclusions drawn from data The program is driven by real data and real applications **Journal of Qualitative Education** ,2013-05 *Journal for Research in Mathematics Education* ,2013 Host Bibliographic Record for Boundwith Item Barcode 30112111588932 and Others ,2013 *The New York Times Index* ,2008 **Index to Media and Materials for the Mentally Retarded, Specific Learning Disabled, Emotionally Disturbed** National Information Center for Special Education Materials,1978 Paperbound Books in Print ,1984 **McGraw-Hill's 5 NLN PAX-RN Practice Tests** Joseph Brennan,2013-01-08 McGraw Hill s 5 NLN PAX RN Practice Tests helps you prepare for this important exam and achieve the high score you need to get into the nursing school you desire **Bookseller and the Stationery Trades' Journal** ,1969 *The Michigan Journal* ,1987 The Parliamentary Debates (Hansard). Great Britain. Parliament. House of Lords,2010 *California Agriculture* ,2017 Agroborealis ,2014 **The Current Digest of the Soviet Press** ,1962

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web they're quite common with more than 1 in 10 people affected kidney stones are usually found in the kidneys or in the ureter the tube that connects the kidneys to your bladder they can be extremely painful and can lead to kidney infections or the kidney not working properly if left untreated

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