

# 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

# Mathematic Paper 1 September 2013

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The logo of the University of Oxford, featuring a red circular emblem with a white cross and four smaller crosses in the quadrants, set against a light blue background.

## **Mathematic Paper 1 September 2013:**

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**The Leading Edge of Early Childhood Education** Nonie K. Lesaux, Stephanie M. Jones, 2021-02-23 The Leading Edge of Early Childhood Education aims to support the effort to simultaneously scale up and improve the quality of early childhood education by bringing together relevant insights from emerging research to provide guidance for this critical fledgling field It reflects the growing recognition that early childhood experiences have a powerful effect on children's later academic achievement and long-term life outcomes Editors Nonie K Lesaux and Stephanie M Jones bring together an impressive array

of scholarly contributors Topics include creating learning environments that support children s cognitive and emotional development identifying and addressing early risk factors using data to guide educators practice and capitalizing on the use of technology Recent years have seen a surge of local state and national initiatives aimed at expanding and improving early childhood initiatives particularly regarding access to preK programs The Leading Edge of Early Childhood Education promises to be a valuable resource for those charged with enacting the next level of work in this critical area

Fundamenta Mathematicae ,2016      **Ricerche di matematica** ,2014      **Kochi Journal of Mathematics** ,2015  
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,2013      **Chinese Mathematics** ,1967      Revista Matemática Iberoamericana ,2015      Oxford University Gazette  
University of Oxford,1911      The Cumulative Book Index ,1912 A world list of books in the English language      **British**  
**Chemical and Physiological Abstracts** ,1927      Journal of Horticulture, Cottage Gardener and Home Farmer ,1890  
**The Farfaru Journal of Multi-disciplinary Studies** ,2014      Parliamentary Debates (Hansard). Great Britain.  
Parliament. House of Commons,2013      **British Abstracts** ,1927      Journal of Developmental Education ,2017

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fallingwater house discover frank lloyd wright s architectural - Jan 31 2022

web jun 29 2022 the fallingwater house also sometimes referred to as the waterfall house is a preserved masterpiece of the renowned architect frank lloyd wright and is considered the best work in american architecture of all time for reasons that will be discussed throughout the article

*fallingwater exterior and interior frank lloyd wright pbs* - Nov 09 2022

web fallingwater exterior and interior fallingwater s floors and roofs are dramatically cantilevered over the waterfall of bear run a creek in western pennsylvania executed in reinforced