

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) $20 - 1$

(b) 22

(c) 12

(d) 10

Does Maths Paper1 Leaked For 2014

Damian Murchan, Gerry Shiel



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Technology-Enhanced Language Teaching and Learning Karim Sadeghi, Michael Thomas, Farah Ghaderi, 2023-02-23 The Covid 19 pandemic has directly impacted the way teachers and learners worldwide teach and learn languages forcing numerous educational activities in technologically deprived contexts to stop altogether and those in technologically rich environments to go online on an emergency basis This volume provides a collection of theoretical and practical insights into the challenges and affordances faced globally during the pandemic and lessons learnt about the application of digital technologies for language teaching and learning The chapters explore the vital role of technology in its various forms including the internet social media CALL Computer Assisted Language Learning MALL Mobile Assisted Language Learning TALL Technology Assisted Language Learning and TELL Technology Enhanced Language Learning Topics explored include the new avenues digital technology has opened up for language teachers and learners options and challenges in applying technology in various contexts and how the second language education industry could have been adversely impacted at the time of the pandemic without technological affordances The contributions showcase studies from various geographical contexts revealing how the global crisis was received and tackled differently in Australia Hong Kong Iran Italy Japan New Zealand the UAE the UK and the USA

Understanding and Applying Assessment in Education Damian

Murchan, Gerry Shiel, 2024-04-09 All teachers are responsible for assessing the children they teach and the outcomes of any assessment are important for individual learners schools and wider education systems Designed as a pragmatic guide for new teachers and those training to teach this book is your one stop shop for understanding assessment in schools It covers formative and summative approaches used across primary and secondary education supporting a balanced overview with policy examples drawn from the UK Ireland and wider international contexts This updated second edition reflects recent trends in assessment and includes more balanced coverage across primary and secondary age phases with a broader range of examples across curriculum subject areas a new chapter on the potential of digital assessment for both formative and summative purposes the impact of the COVID 19 pandemic on assessment in general and examinations in particular Damian Murchan is Associate Professor in the School of Education at Trinity College Dublin Gerry Shiel is a Research Fellow at the Educational Research Centre Dublin Ireland

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