

This Question Paper contains 20 printed pages.
(Part - A & Part - B)

Sl.No. 1501204

052 (E)

(FEBRUARY-MARCH, 2025)
SCIENCE STREAM
(CLASS - XII)

Part - A : Time : 1 Hour / Marks : 50

Part - B : Time : 2 Hours / Marks : 50

પ્રશ્ન પેપર-નો સેટ નંબર જો-લી
સામેનું વર્તુળ OMR શીટમાં
ઘટ્ટ કરવાનું રહે છે.
Set No. of Question Paper,
circle against which is to be
darken in OMR sheet.

15

(Part - A)

Time : 1 Hour]

[Maximum Marks : 50

Instructions :

- 1) There are 50 objective type (M.C.Q.) questions in Part - A and all questions are compulsory.
- 2) The questions are serially numbered from 1 to 50 and each carries 1 mark.
- 3) Read each question carefully, select proper alternative and answer in the O.M.R. sheet.
- 4) The OMR sheet is given for answering the questions. The answer of each question is represented by (A) O, (B) O, (C) O, (D) O. Darken the circle ● of the correct answer with ball-pen.
- 5) Rough work is to be done in the space provided for this purpose in the Test Booklet only.
- 6) Set No. of Question Paper printed on the upper-most right side of the Question Paper is to be written in the column provided in the OMR sheet.
- 7) Use of Simple Calculator and log table is allowed, if required.
- 8) Signs used in question Paper have usual meaning.

- 1) Select the correct Nernst Equation for the given cell -



(A) $E_{\text{cell}} = E^{\circ}_{\text{cell}} - \frac{0.059}{2} \log [\text{H}^+][\text{Br}^-]$

(B) $E_{\text{cell}} = E^{\circ}_{\text{cell}} - 0.059 \log \frac{[\text{H}^+]}{[\text{Br}^-]}$

(C) $E_{\text{cell}} = E^{\circ}_{\text{cell}} - \frac{0.059}{2} \log \frac{[\text{H}^+]^2}{[\text{Br}^-]^2}$

(D) $E_{\text{cell}} = E^{\circ}_{\text{cell}} - 0.059 \log [\text{H}^+][\text{Br}^-]$ ✓

Rough Work

1march 2mathematics Paper

Scott C. Dulebohn



1march 2mathematics Paper:

Supporting Early Mathematical Development Caroline McGrath, 2025-10-14 *Supporting Early Mathematical Development* is an essential text combining theory and practice to enable successful mathematical education for children from birth to 12 years. This text considers how students, academics, parents, and professionals can develop their mathematical thinking practice whilst acknowledging there will always be a road yet to travel; we will always be practising the craft of teaching mathematics. Charting the delivery of mathematical development in playgroups, children's centres, nurseries, and primary schools, the book promotes an effective pedagogy for mathematics. This new edition provides a conceptualisation of mathematics and places a fresh emphasis on mathematical literacy to empower children. New chapters include the following: Mediators of Mathematical Thinking, Understanding Pattern, Pre-Algebraic and Algebraic Thinking, Naming, Renaming, and Processing Numbers, Statistics, Statistical Diagrams, and Probability Measure, Geometry. Throughout the book, Caroline McGrath navigates the complexity of teaching and learning mathematics through careful thought and consideration of mediators of mathematical thinking. This supportive book is designed for educators who want to know how to reconstruct mathematical ideas with children and respond in the moment. Returning to the root of understanding using the adaptive pedagogical style recommended in this text, you can create satisfying mathematical experiences for children. Collected Mathematical Papers: Associative algebras and Riemann matrices Abraham Adrian Albert, Richard E. Block, This book contains the collected works of A. Adrian Albert, a leading algebraist of the twentieth century. Albert made many important contributions to the theory of the Brauer group and central simple algebras, Riemann matrices, nonassociative algebras, and other topics. Part 1 focuses on associative algebras and Riemann matrices, part 2 on nonassociative algebras and miscellany. Because much of Albert's work remains of vital interest in contemporary research, this volume will interest mathematicians in a variety of areas. **Glasgow University Calendar for the Year ...** University of Glasgow, 1899 **A Mathematical Genius: SRINIVASA RAMANUJAN Swayambhu** Dr. K. Srinivasa Rao, 2025-05-12 This book is intended for students interested in the life and work of Srinivasa Ramanujan, who during a short life span of 32 years, 4 months, and 4 days left behind an incredibly vast and formidable amount of original mathematical discoveries which have been path-breaking in the areas of Number theory, such as Partitions and mock theta functions. The Notebooks of Srinivasa Ramanujan and his Lost Notebook, containing about 4000 Entries, theorems, will continue to be eternal sources of inspiration to the mathematicians of the world, as the self-taught Ramanujan did not provide proofs for them, and it is incredible that there are no errors in them. It is the fond hope of the author that the mathematics students will be inspired by the life of Ramanujan to take to a study of the Notebooks of Ramanujan and the Collected papers of Srinivasa Ramanujan. Collected Papers of Srinivasa Ramanujan Srinivasa Ramanujan, 2015-12-03 Originally published in 1927, this book presents the collected papers of the renowned Indian mathematician Srinivasa Ramanujan (1887-1920) with editorial contributions from G. H. Hardy (1877-1947). Detailed notes are

incorporated throughout and appendices are also included This book will be of value to anyone with an interest in the works of Ramanujan and the history of mathematics *Collected Mathematical Papers* Otto Szász,1955 **Selected Mathematical Papers** United States. National Security Agency,1964 *Computer Aided Design of Multivariable Technological Systems* G. G. Leininger,2014-05-16 Computer Aided Design of Multivariable Technological Systems covers the proceedings of the Second International Federation of Automatic Control IFAC The book reviews papers that discuss topics about the use of Computer Aided Design CAD in designing multivariable system such as theoretical issues applications and implementations The book tackles several topics relevant to the use of CAD in designing multivariable systems Topics include quasi classical approach to multivariable feedback system designs fuzzy control for multivariable systems root loci with multiple gain parameters multivariable frequency domain stability criteria and computational algorithms for pole assignment in linear multivariable systems The text will be of great use to professionals whose work involves designing and implementing multivariable systems **Free Sample - 5 Sample Papers for CBSE Class 10 - Science, Maths, English, Hindi B & Social** Disha Experts,2021-07-01 The book 5 Sample Papers for CBSE Class 10 Science Maths English Hindi B Social provides 5 Sample Papers Mock tests 1 of each subject designed on the latest blur print and pattern The book also provides the detailed solutions of all the 5 Tests with Marking Scheme This is a Free Sample book taken from Disha popular series of 10 Sample Papers Table of Contents Sample Paper English with Solutions Sample Paper Hindi with Solutions Sample Paper Mathematics with Solutions Sample Paper Science with Solutions Sample Paper Social Science with Solutions *Messenger of mathematics* ,1873

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