

[5315] - 1
F.Y.B.Sc.
MATHEMATICS
MT - 101 : Algebra and Geometry
(2013 Pattern) (Paper - I)

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.

Q1) Attempt any eight of the following:**[16]**

- a) State principle of strong induction.
- b) Define partition of a non-empty set. Write down any one partition of a set $S = \{2, 3, 4, 8\}$.
- c) Use remainder theorem to compute the remainder when $f(x) = x^4 - 3x^3 - 7x^2 - 2$ is divided by $g(x) = x - 3$.
- d) Find eigen vector of the matrix $\begin{bmatrix} 2 & 3 \\ 0 & 4 \end{bmatrix}$ corresponding to eigen value 4.
- e) Reduce the matrix $A = \begin{bmatrix} 2 & 3 & 4 \\ 3 & 1 & 2 \\ -1 & 2 & 2 \end{bmatrix}$ to echelon form. Hence find rank of A.
- f) Discuss the nature of the conic $5x^2 - 6xy + 5y^2 + 18x - 14y + 9 = 0$.
- g) Show that the lines $\frac{x+3}{2} = \frac{y+5}{3} = \frac{z-7}{-3}$ and $\frac{x+1}{4} = \frac{y+1}{4} = \frac{z+1}{-1}$ are coplanar.
- h) Find equation of the plane passing through the point (2,3,5) and perpendicular to the line whose d.r.s. are 3, -2, 6.
- i) Find centre and radius of the sphere $x^2 + y^2 + z^2 + 2x + 4y + 6z + 5 = 0$.
- j) Define cone and generator of cone.

P.T.O.

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Maths 2 Unit Quiz Questions, 1994 *Maths II* D. W. Russell, Philip V. Ellery, R. K. Williamson, 1987

INTERMEDIATE II YEAR MATHS II A(English Medium) TEST PAPERS Vikram Books, 2014-10-24 Intermediate second Year Maths II A Test papers Issued by Board of Intermediate Education w e f 2013 2014 Mathematics II (For Anna) K.A. Lakshminarayanan, K. Megalai, P. Geetha & D. Jayanth, With an exhaustive cache of solved examples neat illustrations and unsolved problem sets this book aspires to be a great reference material for budding engineers to both understand the intriguing mathematical concepts and apply them in devising modern engineering solutions Key Features 1 Easy to understand concepts with 300 solved examples 2 Unsolved numerical exercises with answers for self assessment 3 Complete coverage of the updated university syllabus 4 Simple and accurate illustrations for quick understanding 5 Solved question papers of past examinations **Classical Math 2 Math Facts Workbook** B. J. Jordan, 2006 *Cambridge 2 Unit Mathematics Year 12 Enhanced Version* William Pender, David Saddler, Julia Shea, Derek Ward, 2011-04 A large number of fully worked examples demonstrate mathematical processes and encourage independent learning Exercises are carefully graded to suit the range of students undertaking each mathematics course Online self marking objective response quizzes provide further opportunities to practice the multiple choice style questions included in HSC Maths exams **Algebra 2** National Aeronautics Administration, 2013-11 Algebra 2 is a course in mathematics offered in the United States public and private school systems taken by approximately 85% of all graduating high school seniors by the age of 17 Two major studies by the U S Department of Education have shown that Algebra 2 is a gateway course that predicts student graduation from college and their eventual qualification for high paying careers The course is typically taught in Grade 10 as a two semester series following prerequisite courses in Algebra I and or Geometry The course stresses student mastery of the analysis and graphing of polynomials logarithmic exponential and trigonometric functions as well as probability statistics complex numbers and matrix algebra with some applications to real world problems in which these modeling techniques can often be seen to apply In keeping with the intent to show how Algebra 2 topics connect with real world applications textbooks commonly include several hundred word problems that are generally culled from situations that students may encounter often involving economics This book contains over 200 problems spanning 70 specific topic areas covered in a typical Algebra 2 course A selection of application problems featuring astronomy earth science and space exploration were then designed to support each specific topic often with more than one example in a specific category Each problem is introduced with a brief paragraph about the underlying science written in a simplified jargon free language where possible Problems are often presented as multi step or multi part activities The intent of these problems is not to follow an explicitly inquiry based approach but to systematically show students how problems and questions of a specific type are often solved Once students have mastered a particular approach there are many opportunities available for students to go beyond each problem and

inquire about other connections that may suggest themselves as the student completes each problem or a collection of problems *I Did It Mathematics 2* Mahesh, *Algebra II For Dummies Education Bundle* Mary Jane Sterling, 2008-08-18 Besides being an important area of math for everyday use algebra is a passport to studying subjects like calculus trigonometry number theory and geometry just to name a few To understand algebra is to possess the power to grow your skills and knowledge so you can ace your courses and possibly pursue further study in math *Algebra II For Dummies* is the fun and easy way to get a handle on this subject and solve even the trickiest algebra problems This friendly guide shows you how to get up to speed on exponential functions laws of logarithms conic sections matrices and other advanced algebra concepts In no time you ll have the tools you need to Interpret quadratic functions Find the roots of a polynomial Reason with rational functions Expose exponential and logarithmic functions Cut up conic sections Solve linear and non linear systems of equations Equate inequalities Simplify complex numbers Make moves with matrices Sort out sequences and sets This straightforward guide offers plenty of multiplication tricks that only math teachers know It also profiles special types of numbers making it easy for you to categorize them and solve any problems without breaking a sweat When it comes to understanding and working out algebraic equations *Algebra II For Dummies* is all you need to succeed Add nearly 290 pages full of hundreds of practice equations and answers in *Algebra II Workbook For Dummies* and you re sure to understand this math before you know it AUTHOR BIO Mary Jane Sterling is a lecturer in mathematics at Bradley University where she teaches courses in algebra and calculus She is the author of several For Dummies mathematics guides *Integrated Math 2* Michael Waski, 2020-09 IM2 is the second set of five progressive review sets that provide daily student work on general arithmetic pre algebra algebra geometry and probability statistics All five review sets contain a student booklet with math problems for daily independent work answer keys and exam booklets with answer keys *Math 2* Nancy Larson, **Maskew Miller's University Examination Tests** Thomas Palmer, 1916 **Cool Algebra 2 Basic Intermediate Advanced Problems Workbook** Algebra 2 Education, 2019-01-13 What you will love is this book features a ton of different TYPES of Algebra 2 math problems from easy to more advanced for your child to practice Cool Algebra 2 features Multiplying and Dividing Rational Numbers Percentage calculations Order of Operations Writing Variable Simplifying Algebraic Expressions Finding the Absolute Value Graphing Complex Numbers Operations Complex Numbers Binomial Numerators and Denominators Equations and Inequalities Properties of Circles Properties of Parabolas Properties of Hyperbolas Linear Equations Geometric Polynomial Matrices Logarithmic Word Problems Eccentricity Conics This book will help your child learn practice and improve skills in algebra *I Did It Mathematics 2 (2/Ed)* Mahesh, **GINNS Maths 2** Pearson Education, Roy Hollands, Ruth Merttens, Ginn and Company, 1983-12-01 *Math 2 Test Prep* Various, Larson, 2003-04-01 **Pre-high School Equivalency**, 2014 A workbook of example and practice questions to build a solid foundation of math skills measured by the GED TASC and HiSET high school equivalency mathematics tests includes answers and explanations

for all lesson exercises and pretest and posttest questions
Math 2 Brenda Stein Dzaldov, Cheryl Urback, 2008-10-01

Math 2 B Accelerate Education, 2023-07 Math 2 B *InfoRead*
Mathematics II Henri Gwyn Davies, Gordon Allen Hicks, 1981

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