Mathematics N3 Assignment
Total: 100 Marks
Instructions: Show all working. Simplify all answers where applicable. Use correct mathematical notation.

SECTION A: Factorisation (15 Marks)

1. Factorise the following expressions completely:
a) $6x^2 - 13x + 6$ (3)
b) $x^3 - 8$ (3)
c) $3x^2y - 12xy^2 + 9y^3$ (3)
d) $x^4 - 16$ (3)
e) $x^2 + 7x + 1($ (3)

SECTION B: Multiplication and Division of Algebraic Fractions (15 Marks)

2. Simplify the following expressions:
a) $\dfrac{3x^2}{x^2-9} \times \dfrac{x+3}{6x}$ (4)
b) $\dfrac{2x^2-8}{x^2-4x} \div \dfrac{x-2}{x}$ (4)
c) $\dfrac{x^2-1}{x^2+3x+2} \times \dfrac{x+2}{x-1}$ (4)
d) State any restrictions for x in one of the above answers. (3)

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Master Resource Book in Mathematics for JEE Main 2022 Prafful K Agarwal,2021-08-26 1 The Master Resource book gives complete coverage of Mathematics 2 Questions are specially prepared for AIEEE consisting 35 chapters from JEE Mains 4 Each chapter is accessorized with 2 Level Exercises and Exam Questions 5 Includes highly useful JEE Main Solved papers Comprehensively covering all topics of JEE Main Syllabus here s presenting the revised edition of Master Resource Book for JEE Main Mathematics that is comprised for a systematic mastery of a subject with paramount importance to a problem solving Sequenced as per the syllabus of class 11th 12th this book has been divided into two parts accordingly Each chapter is contains essential theoretical concepts along with sufficient number of solved paper examples and problems for practice To get the insight of the difficulty level of the paper every chapter is provided with previous years question of AIEEE JEE Single Correct Answer Types and Numerical Value Questions cover all types of questions TOC PART I Class 11th Sets Fundamentals and Relations and Functions Sequences and Series Complex Numbers Quadratic Equations Permutation and Combinations Mathematical Inductions Binomial Theorem and its Applications Trigonometrical Function and Equations Properties of Triangles Heights and Distances Cartesian Coordinate system Straight Lines Circles Parabola Ellipse Hyperbola Introduction to 3 Dimensional Geometry Limits and Derivatives Mathematical Reasoning Statistics Fundamentals of Probability Part II Class 12th Matrices Determinants Relations and Functions Continuity and Differentiability Differentiation Applications of Derivations Indefinitive Integration Area Bound by Curves Differential Equations Vector Algebra Three Dimensional Geometry Advanced Probability **Objective NCERT Xtract Mathematics for JEE Main, Class 11/ 12, BITSAT & JEE Advanced 3rd Edition** Disha Experts,2019-06-10 The 3rd Edition of the book Objective NCERT Xtract Mathematics for JEE Main Advanced Class 11 12 BITSAT consists of Quality Selected MCQs as per current NCERT syllabus covering the entire syllabus of 11th and 12th standard The most highlighting feature of the book is the inclusion of a lot of new questions created exactly on the pattern of NCERT This book cum Question Bank spans through 29 chapters The book provides a detailed 2 page Concept Map for Quick Revision of the chapter This is followed by 3 types of objective exercises 1 Topic wise Concept Based MCQs 2 NCERT Exemplar Past JEE Main BITSAT Questions 3 15 20 Challenging Questions in Try If You Can Exercise Detailed explanations have been provided for all typical MCQs that need conceptual clarity The book also includes 5 Mock Tests for Self Assessment This book assures complete syllabus coverage by means of questions for more or less all significant concepts of Mathematics In nutshell this book will act as the BEST PRACTICE REVISION MATERIAL for all PET entrance exams **S. Chand's New Mathematics Class XI** B.S. Sharma & P. Kumar, Mathematic *10 in One Study Package for CBSE Mathematics Class 11 with 3 Sample Papers* Disha Experts,2017-08-29 10 in ONE CBSE Study Package Mathematics class 11 with 3 Sample Papers is another innovative initiative from Disha Publication This book provides the excellent approach to Master the subject The book has 10 key ingredients that will help you achieve success 1

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