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So, the more you practice and use the equations, the more likely it is that you will remember the equations and its applications. So, if you think you can't make it through this section in JEE Main, put all your worries away for. Eckovation brings you a chapter-wise list of Maths formulae essential to crack the exam this year. Formula of Function, Relations, Inverse Functions Formula of Quadratic Equation, Cube Roots of Unity Formula of Quadratic Binomial, Important Expansion Formula of Quadratic Parabola, Hyperbola and Eclipse Formula of Limit, Continuity and Differentiability Formula of Quadratic Integral Calculus, Probability Formula of Quadratic Matrices, Determinants, Vector Algebra Formula of Statistics and Differential Equation Thanks for subscribing! Please check your email for further instructions. Comments comments A formula is a mathematical expression that is used to describe a scientific phenomenon mathematically. IIT JEE Maths Formula Sheet Pdf for IIT JEE describes all the important chapters in detail. IIT JEE Maths handwritten notes pdf contain the similar paper pattern as given by CBSE. Therefore that will help you to be confident in exams. Resonance Maths Formula Sheet Book Pdf includes a set of questions which are asked in previous year IIT JEE exams. Tata Mcgraw Hill Maths for IIT JEE Allen formula book pdf contains many maths formula which solves any complex questions by using correct JEE math formula. Students can download the Maths Formulas for IIT JEE Pdf from the below-given links. Download IIT JEE Mathematics Formula For JEE Main + Advanced Mathematics Complete Revision Download PDF Another Formula Book - View PDF Maths Formula Topics cover Maths Formulas for IIT JEE Vectors, Trigonometry, Triangle, Straight Line, Sets, Series, Probably, Circle and Algebra many more. 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Students can find here the complete JEE Main Maths syllabus 2021 in pdf form prescribed by the NTA. The JEE Main Mathematics syllabus 2021 contains detailed topics that will be covered in the exam. Since the Recent JEE Main exam features lengthy and implication-based questions from the mathematics subject, it is advisable for candidates to refer to the Maths syllabus thoroughly and practice with mock tests to get well versed with the subject. Preparation becomes better with the knowledge of the detailed JEE Main 2021 syllabus for Maths with weightage. Candidates can download the detailed JEE Main Maths syllabus 2021 in pdf form prescribed by the NTA. Mathematics, being calculative in nature, requires a special analytical approach towards problem-solving. Maths is possibly one of the most difficult subjects for students to clear among the list of JEE Mains Syllabus. If you are aspiring and preparing for JEE Mains but find Mathematics subject difficult to prepare, here are some steps that you can follow to make it easier to understand the subject. JEE Main 2021 is being conducted in 4 sessions - February, March, April & May 2021 in CBT mode at different test centers located in 334 cities throughout the country and abroad. JEE Main July session ended recently. JEE Main Fourth Session is scheduled to be held on August 26, 27, 31, and September 1 & 2, 2021. JEE Main February, March, and July 2021 sessions were already conducted. According to the JEE Main 2021 exam pattern, Maths subject will have 30 MCQs, out of which 25 questions need to be answered. This article will provide you with complete details about the JEE Main Mathematics Syllabus 2021, including the section-wise topics, important books to study, difficulty level, and more. Latest JEE Mains 2021 Answer Key is Available Now! ATTEMPT FREE JEE MAIN MOCK TEST NOW JEE Main Maths Syllabus 2021 Key Highlights Before we get into the details of the JEE Main Mathematics Syllabus, let's have an overview of the exam: JEE Main Maths Syllabus 2021 PDF Download The National Testing Agency (NTA) has released the JEE Mains Maths Syllabus 2021 PDF. Candidates can find the Maths syllabus of JEE Mains 2021 tabulated below: JEE Main Mathematics Syllabus 2021 Topic-wise Candidates can check the detailed JEE Main 2021 Syllabus for Mathematics tabulated below: Solve Section-wise JEE Main Maths Practice Questions Below-tabulated is the section-wise JEE Main Maths Syllabus 2021 practice questions: Integral Calculus Algebra Coordinate Geometry Differential Calculus Trigonometry Statistics and Mathematical Reasoning SOLVE JEE MAIN PREVIOUS YEAR PAPERS NOW JEE Main Maths Syllabus 2021 with Weightage Given-below is the topic-wise weightage for JEE Main Paper 1 Maths Syllabus 2021: JEE Main Maths Weightage for Paper 1 JEE Mains Mathematics Syllabus with Weightage JEE Main 2021 Important Chapters for Mathematics To score higher in JEE Main Maths, candidates must be aware of the JEE Main important chapter for mathematics. Candidates can check the amount of input required to ace the exam. JEE Main Maths Syllabus 2021 - Chapter wise Weightage & Difficulty Level Embibe's academic experts have divided the chapters based on the 'weightage' (importance to the exam) vs the amount of input (the effort to learn and understand) required to master them. SOLVE UNLIMITED JEE MAIN MATHS QUESTIONS NOW Detailed JEE Main Maths Syllabus 2021 Check JEE Mains Mathematics syllabus 2021 here: Sets, Relations, and Functions UnitTopicsSets, Relations, and Functions Sets and their representationUnion, intersection and complement of sets and their algebraic propertiesPower setRelation, Types of relations, equivalence relations, functions, one-one, into and onto functions, the composition of functions Complex Numbers and Quadratic Equations UnitTopicsComplex Numbers and Quadratic Equations Complex numbers as ordered pairs of reals, Representation of complex numbers in the form a+ib and their representation in a planeArgand diagram, algebra of complex numbers, modulus and argument (or amplitude) of a complex number, square root of a complex number, triangle inequalityQuadratic equations in real and complex number systems and their solutionsRelation between roots and co-efficients, nature of roots, formation of quadratic equations with given roots. Matrices and Determinants UnitTopicsMatrices and Determinants Matrices, algebra of matrices, types of matrices, determinants and matrices of order two and threeProperties of determinants, evaluation of determinants, area of triangles using determinantsAdjoint and evaluation of inverse of a square matrix using determinants and elementary transformations.Test of consistency and solution of simultaneous linear equations in two or three variables using determinants and matrices Permutations And Combinations UnitTopicsPermutations And Combinations The fundamental principle of countingPermutation as an arrangement and combination as selectionMeaning of P (n,r) and C (n,r), simple applications Mathematical Induction UnitTopicsMathematical Induction Principle of Mathematical Induction and its simple applications. Binomial Theorem and its Simple Applications UnitTopicsBinomial Theorem and its Simple Applications Binomial theorem for a positive integral index, general term and middle termProperties of Binomial coefficients and simple applications. Sequences and Series UnitTopicsSequences and Series Arithmetic and Geometric progressions, insertion of arithmetic, geometric means between two given numbers.Relation between A.M. and G.MSum up to n terms of special series: S n, S n2, Sn3.Arithmetic-Geometric progression. Limit, Continuity and Differentiability UnitTopicsLimit, Continuity and Differentiability Real - valued functionsAlgebra of functionsPolynomials, rational, trigonometric, logarithmic and exponential functions, inverse functionsGraphs of simple functionsLimits, continuity and differentiabilityDifferentiation of the sum, difference, product and quotient of two functionsDifferentiation of trigonometric, inverse trigonometric, logarithmic, exponential, composite and implicit functions; derivatives of order up to twoRolle's and Lagrange's Mean Value Theorems.Applications of derivatives: Rate of change of quantities, monotonic - increasing and decreasing functionsMaxima and minima of functions of one variable, tangents and normals Integral Calculus UnitTopicsIntegral Calculus Integral as an antiderivativeFundamental integrals involving algebraic, trigonometric, exponential and logarithmic functionsIntegration by substitution, by parts and by partial fractions.Integration using trigonometric identitiesIntegral as limit of a sumFundamental Theorem of CalculusProperties of definite integrals.Evaluation of definite integralsDetermining areas of the regions bounded by simple curves in standard form.Evaluation of simple integrals: Differential Equations UnitTopicsDifferential Equations Ordinary differential equations, their order and degreeFormation of differential equations by the method of separation of variablesSolution of homogeneous and linear differential equations: (dy/dx) + p(x) y = q(x) Coordinate Geometry UnitTopicsCoordinate Geometry Cartesian system of rectangular co-ordinates 10 in a planeDistance formulaSection formulaLocus and its equationTranslation of axesThe slope of a line, parallel and perpendicular linesIntercepts of a line on the coordinate axes.Straight linesVarious forms of equations of a lineIntersection of linesAngles between two linesConditions for concurrence of three linesDistance of a point from a lineEquations of internal and external bisectors of angles between two lines, coordinates of the centroidOrthocentre and circumcentre of a triangleEquation of family of lines passing through the point of intersection of two lines.Circles, conic sectionsThe standard form of the equation of a circleThe general form of the equation of a circle, its radius and centreEquation of a circle when the endpoints of a diameter are givenPoints of intersection of a line and a circle with the centre at the origin and condition for a line to be tangent to a circleEquation of the tangent.Sections of cones, equations of conic sections (parabola, ellipse and hyperbola) in standard formsCondition for y = mx + c to be a tangent and point (s) of tangency. Three Dimensional Geometry UnitTopicsThree Dimensional GeometryCoordinates of a point in space.Distance between two pointsSection formulaDirection ratios and direction cosinesThe angle between two intersecting lines.Skew lines, the shortest distance between them and its equation.Equations of a line and a plane in different formsThe intersection of a line and a plane, coplanar lines Vector Algebra UnitTopicsVector Algebra Vectors and scalars.Addition of vectorsComponents of a vector in two dimensions and three-dimensional spaceScalar and vector productsScalar and vector triple product. Statistics and Probability UnitTopicsStatistics and Probability Measures of Dispersion: Calculation of mean, median, mode of grouped and ungrouped data calculation of standard deviation, variance, and mean deviation for grouped and ungrouped data.Probability: Probability of an event, addition and multiplication theorems of probability.Bayes's theorem.Probability distribution of a random variate.Bernoulli trials and Binomial distribution. Trigonometry UnitTopicsTrigonometry Trigonometrical identities and equations.Trigonometrical functions.Inverse trigonometrical functions and their properties. Heights and Distances Mathematical Reasoning UnitTopicsMathematical Reasoning Statements, logical operations, and, implies, implied by, if, and only if.Understanding of tautology, contradiction, converse, and contrapositive. JEE Main Exam Pattern & Marking Scheme for Paper 1 (B.Tech/ B.E.) Candidates appearing for JEE Main 2021 must be aware of the exam pattern and the type of questions asked in the exam. Changes Made in JEE Main 2021 Exam Pattern The JEE Main 2021 Paper 1 exam pattern will have a total of 90 questions, 30 each from Physics, Chemistry, and Maths. Candidates must attempt 75 questions only.Each subject will have 20 Multiple Choice Questions (MCQs) and 10 Numerical Value Questions.Out of the 10 numerical questions, only 5 must be attempted, and the rest 5 questions can be left as a choice.Numerical Questions don't have negative markingJEE Main 2021 is conducting in 13 languages Paper 1 - BE/BTech Pattern Highlights of JEE Main 2021 Exam Pattern for Maths Number of Questions: Math subject will have 20 MCQs and 10 numerical questions out of which 5 is mandatory.Language: 13 languages - Assamese, Bengali, Kannada, Malayalam, Marathi, Odia, Punjabi, Tamil, Telugu, Urdu, Hindi, English and GujaratMarking Scheme: 4 marks for each correct response.Negative Marking: 1 mark (-1) will be deducted for each incorrect response or multi-responses (only for MCQ).No marks will be awarded for unattempted questions.For Numerical value questions: 4 marks (+4) will be awarded for every correct answer and no marks will be deducted for incorrect answers. Class-wise Distribution of JEE Main Maths Syllabus 2021 The class-wise distribution of the JEE Maths syllabus 2021 is tabulated as follows: JEE Main Maths Syllabus Class 11 and Class 12JEE Main Paper 2 Maths Syllabus 2021 Candidates can check the JEE Mains Paper 2 Mathematics Syllabus 2021 below: Matrices and DeterminantsQuadratic EquationsIntegral CalculusLimit, Continuity and DifferentiabilitySequences and SeriesCoordinate GeometryVector AlgebraTrigonometryStatistics and probabilityThree dimensional geometryBinomial Theorem and its simple applicationsDifferential Equations Sets, Relations and FunctionsPermutations and CombinationsMathematical InductionMathematical ReasoningComplex Numbers Best Books for JEE Mains 2021 Mathematics Candidates can check the best books for JEE Mains Maths preparation from the given table below: TopicBooks and AuthorsAlgebraAlgebra by Dr S K Goyal Arihant PublicationsDifferential CalculusDifferential Calculus by Amit M Agarwal (Arihant Publications)Integral CalculusIntegral Calculus by Amit M Agarwal (Arihant Publications)Coordinate GeometryThe Elements Of Coordinate Geometry by S L LoneyGeometryGeometry by Dr Gorakh Prasad Practising ProblemsPlay with Graphs by Amit M Agarwal (Arihant Publications)TrigonometryPlane Trigonometry by S L LoneyUnderstanding of BasicsMaths for Class XI and XII by R.D. Sharma How Can Embibe Help You In Cracking JEE Mains Maths Syllabus 2021? JEE Main Maths Syllabus is one of the hardest sections of the paper. Maths is a subject that requires conceptual understanding. Candidates must practice a lot to remember all the important formulae of maths. Embibe's JEE Main mock test series helps you know the current exam trend, marking scheme, etc. The detailed solutions and insights on how you have performed in the test will also be provided with Embibe's Advanced Feedback Analysis (AFA). The AFA also pinpoints your weaknesses and provides recommendations that will improve your score in the upcoming tests. Note that rigorous practice of questions from JEE Main important chapters alone cannot guarantee a high score. You must focus on the JEE Main concepts as well. Otherwise, there will be chances of you losing marks. Embibe's RANKUP keeps track of your performance when you take JEE Main mock tests on Embibe. It generates Personalized Practice Packs for you, which contain handpicked questions from the important chapters you are weak at. These practice packs make it easier for you to narrow down your scope for study by identifying your weak concepts from the JEE Main Important Chapters and providing the right questions you need to practice. Frequently Asked Questions On JEE Main Maths Syllabus 2021 Here are the answers to some frequently asked questions from the candidates on JEE Mains Maths syllabus 2021. Q1: Will questions be asked from the Class 11 syllabus for JEE Main Mathematics? Ans: Yes, questions in JEE Main maths will be asked from the Class 11th syllabus. Q2: Is JEE Main maths tough? Ans: JEE Main Maths is one of the toughest subjects, which requires a lot of attention and time in the JEE Main preparation. JEE Main maths syllabus requires time management as well as problem-solving skills. Therefore, students must always begin their JEE Main preparation with the maths syllabus. Q3: Is NCERT enough while preparing for the JEE Mains Maths syllabus? Ans: NCERT is the base for JEE's Main syllabus for maths. Thus, candidates must be thorough with the entire mathematics syllabus to top the exam. Q4: Can I give JEE without maths? Ans: No. You cannot appear for the JEE Mains exam if you do not have mathematics as a subject in your Classes 11 and 12. PRACTICE JEE MAIN QUESTIONS NOW To crack JEE Main proper guidance and mentoring are required. Proper planning, consistent hard work, and dedication will definitely lead you to success. Use Embibe for practice, tests, and improve your score. We hope this detailed article on JEE Main Maths Syllabus helps you in your preparation. If you have any queries regarding JEE Main Mathematics Syllabus or the exam in general, drop a comment below, and we will get back to you at the earliest. Embibe wishes you good luck for JEE Main 2021! 155 Views

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