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Applied mathematics class 11 book code 241 pdf

The Central Board of Secondary Education (CBSE) has introduced a new subject from the year 2020-21. Those candidates who will be entering the Class 11th and those who are in the CBSE Class 12 can take up the CBSE Applied Mathematics subject (Code 241). CBSE Class 12 Applied Mathematics is available as a main or an academic elective subject. The CBSE Maths subject that is available now will not change. CBSE Class 12 Applied Mathematics 2021 The present CBSE Mathematics subject for Class 11 and 12 is designed for the Science Stream students of Class 11 and 12. The new curriculum or subject for Commerce and Arts students under CBSE Applied Mathematics (Subject code (241) is released by the board. It will be applicable for those students who wish to choose Economics, Commerce, and Social Science Subjects. Applied Mathematics is designed to cater to the students of the Commerce and Humanities stream. This subject focuses on the fundamentals of Business, Finance, Economics, etc. Also, check CBSE Class 12 Time Table 2021. CBSE Class 12 Applied Mathematics Syllabus 2021 The topics involved in Applied Mathematics are number theory, interpretation of data, commercial mathematics, set theory, algebra, relation & function, etc. The detailed CBSE Class 12 Applied Mathematics Syllabus is as follows: Unit 1 Numbers, Quantification, and Numerical Applications Modulo Arithmetic Congruence modulo Simple arithmetic functions Allegation or Mixture Numerical problems on boats and streams; partnership; pipes and cisternraces and games, scheduling Numerical inequalities Unit II Algebra A solution of simultaneous linear equations using the elimination method (up to 3 variables) Matrices and types of matrices Algebra of matrices Determinants The inverse of a matrix Cramer's rule and its application Simple applications of matrices and determinants including Leontief input-output model for two variables Unit III Calculus Application of derivatives Increasing/Decreasing functions Maxima and Minima Marginal cost and marginal revenue using derivatives Integration Indefinite integral as a family of curves Definite integral as area under the curve Integration of simple algebraic functions (primitive, by substitution, by parts) Application of Integration (consumer surplus-producer surplus) The differential equation (definition, order, degree) Formulating and solving a linear differential equation Application of differential equation (Growth and Decay Model) Unit IV Probability Probability Distribution Mathematical Expectation Variance Binomial Distribution Poisson distribution Normal distribution Basic applications and inferences Unit V Inferential Statistics Population and sample Parameter, statistic, and statistical inferences The t-Test (one-sample t-test and two independent groups t-test) Unit VI Index numbers and Time-based data Index numbers use of index numbers Construction of index numbers (simple and weighted) Tests of the adequacy of index numbers (unit test and time-reversal test) Time series, Time series analysis for univariant data sets Trend analysis by moving average method Trend analysis by the fitting of linear trend line using the least squares Unit VII Financial Mathematics Perpetuity, Sinking funds Valuation of Bonds (Present value approach and Relative price approach) Calculation of EMI Calculation of returns, nominal rate of return, effective rate of interest The compound annual growth rate Stock, shares, and debentures Linear method of depreciation Unit VIII Linear Programming Introduction and related terminologies (constraints, objective function, optimization) A mathematical formulation of linear programming problems Different types of linear programming problems (Transportation and assignment problem) Graphical method of solution for problems in two variables Feasible and infeasible regions (bounded and unbounded) Feasible and infeasible solutions, optimal feasible solutions (up to three nontrivial constraints) CBSE Class 12 Applied Mathematics Marking Scheme 2021 No. Units No. of Periods Marks I. Numbers, Quantification and Numerical Applications 20 06 II. Algebra 20 10 III. Inferential Statistics 10 06 IV. Index Numbers and Time-based data 30 10 V. Calculus 60 15 VI. Financial Mathematics 40 15 VII. Linear Programming 25 08 VIII. Probability 35 10 Total 240 80 Internal Assessment   20 CBSE Class 12 Applied Mathematics FAQs Q). Can a candidate opt for both 'Mathematics (041)' and 'Applied Mathematics' subjects? A). No, the candidates have to choose one option among the two subjects. Q). Will, there be any changes in the existing Mathematics Subject? A). No, the existing CBSE Mathematics Subject will not be changed. Q). If a candidate doesn't clear Mathematics (041) in the Board Exa, will he/she be eligible to take up the Applied Mathematics(241) or vice versa in the exam? A). No, the candidate will not be eligible to do so. These two subjects are totally separate and the candidates cannot interchange them. Q). Can a candidate who passed Standard Mathematics in Class X apply for Applied Mathematics in Class 11? A). Yes, the candidate can do so, but the choice completely depends on the courses chosen by the candidate. Q). Which are the topics involved in CBSE Class 12 Applied Mathematics? A). The CBSE Class 12 Applied Mathematics topics involve, Numbers, Quantification and Numerical Applications, Algebra, Inferential Statistics, Index Numbers, and Time-based data, Calculus, Financial Mathematics, Linear Programming, & Probability. F.1002/CBSE-Acad/Maths/Circular/20 1st April,2020Circular No Acad-22/ 2020 All Heads of Institutions affiliated to CBSE Subject: Introduction of 'Applied Mathematics (241)' as an Academic Elective at Senior Secondary Level As part of Systemic Reforms, National Curriculum Framework 2005 recommends that Subjects such as Mathematics and English could be examined at two levels; standard and higher level. In the long term, all subjects could be offered at two levels with students doing at least three/two of the six at standard level and the remaining three/ four at higher level. As per this recommendation, Board has already offered two levels of examinations in Mathematics at secondary level. As Secondary School Education prepares students to explore future career options after graduating from the school, Mathematics is an important subject which helps students to choose various fields of their choices. Mathematics is widely used in higher studies in the field of Economics, Commerce, Social Sciences and many others. It has been observed that the existing syllabus of Mathematics aligns well with Science subjects, but does not align well with Commerce or Social Science-based subjects in university education. By keeping this in mind, one more elective course in Mathematics syllabus will be offered for Sr. Secondary classes with an aim to provide students relevant experience in Mathematics which can be used in the fields other than Physical Sciences. A course by this name was earlier designed as a skill subject. The academic course that has been designed now by the same name has several value additions to develop substantial mathematical skills and methods needed in other subject areas. Topics covered in two years shall aim to enable students to use mathematical knowledge in the field of business, economics and social sciences. It aims to promote appreciation of mathematical power and simplicity for its countless applications in diverse field. It is expected that the new subject of Applied Mathematics is taught by connecting concepts to the application in various fields, thereby enabling students to develop 21st century competencies such as critical thinking, problem solving, logical reasoning, mathematical thinking, etc. Objectives:a) To develop an understanding of basic mathematical and statistical tools and their applications in the field of commerce (business/finance/economics) and social sciences;b) To model real world experiences/problems into mathematical expressions using numerical/algebraic/graphical representation;c) To make sense from the data by organizing, representing, interpreting, analysing, and to make meaningful inferences from the real-world situations;d) To develop logical reasoning skills and apply the same in problem solving;e) To reinforce mathematical communication by formulating conjectures, validating logical arguments and testing hypothesis;f) To develop connections between Mathematics and other disciplines. Get CBSE Class 11 Applied Mathematics book (or Handbook) published by the Central Board of Secondary Education itself. Link to download CBSE Class 11 Applied Mathematics book is given at the end of this article. CBSE Class 11 Applied Mathematics Handbook contains complete details of course content. It also contains chapter-wise theory & solved examples. Students can easily grasp important concepts with this book. After going through each chapter, students can also understand the types of questions which can be asked in CBSE Class 11 Applied Mathematics exam 2020-21. Also Check: CBSE Class 11 Applied Mathematics Syllabus 2020-21 CBSE Class 11 Applied Mathematics handbook also suggests that the syllabus of CBSE Class 11 Applied Mathematics has been designed to lead the students towards the mathematical tools applicable in life. Special efforts have been made to connect its applications in various fields, so that students who are opting for Social Science-based subjects or Commerce based subjects or skill-based subjects at the senior secondary level can also fulfil their urge of learning mathematics joyfully. There are 8 units in CBSE Class 11 Applied Mathematics handbook besides curriculum. Given below are its details Curriculum of Applied Mathematics Unit 1 Number Theory   (b) Ratio, Proportion and Logarithms Unit 2: Interpretation of Data Unit 3: Analysis of Data Unit 4: Commercial Mathematics Unit 5: Set Theory Unit 6: Relation and Function Unit 7: Algebra   (a) Complex Number   (b) Sequence and Series   (c) Permutations and Combinations Unit 8: Trigonometry According to the assessment pattern of CBSE Class 11 Applied Mathematics, out of 100 marks, 70 marks is for theory papers and 30 marks are for practical. This subject has some very interesting projects. For complete details, download the PDF of CBSE Class 11 Applied Mathematics Handbook from the link given below Download CBSE Class 11 Applied Mathematics Handbook

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