

SUBJECT: MATHEMATICS
CLASS : IX

MAX. MARKS : 80
DURATION : 3 HRS

General Instruction:

- (i) All questions are compulsory.
- (ii) This question paper contains 30 questions divided into four Sections A, B, C and D.
- (iii) Section A comprises of 6 questions of 1 mark each. Section B comprises of 6 questions of 2 marks each. Section C comprises of 10 questions of 3 marks each and Section D comprises of 8 questions of 4 marks each.
- (iv) There is no overall choice. However, an internal choice has been provided in two questions in 1 mark each, two questions in 2 marks each, four questions of 3 marks each and three questions of 4 marks each. You have to attempt only one of the alternatives in all such questions.
- (v) Use of Calculators is not permitted

SECTION – A

Questions 1 to 6 carry 1 mark each.

1. Find the total surface area of a hemisphere of radius 10 cm. (Use $\pi = 3.14$)
OR
Find the height of cone, if its slant height is 34 cm and base diameter is 32 cm.
2. If the point (3, 4) lies on the graph of the equation $3y = ax + 7$, find the value of a.

3. Simplify: $\frac{\sqrt{32} + \sqrt{48}}{\sqrt{8} + \sqrt{12}}$

OR

Find the value of $\sqrt{3^{-2}}$.

4. In a bag, there are 100 bulbs out of which 30 are defective ones. A bulb is taken out of the bag at random. Find the probability of the selected bulb to be a good one.
5. If its perimeter of an equilateral triangle is 180 cm, what will be its area?
6. In the below figure, $\angle ABC = 69^\circ$, $\angle ACB = 31^\circ$, find $\angle BDC$.

**SECTION – B**

Questions 6 to 12 carry 2 marks each.

7. A river 3 m deep and 40 m wide is flowing at the rate of 2 km per hour. How much water will fall into the sea in a minute?

Maths Paper B 21

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Oswaal One For All Olympiad Previous Years' Solved Papers, Class-2 Mathematics Book (Useful book for all Olympiads) (For 2023 Exam) Oswaal Editorial Board, 2023-06-14 Description of the product As per the Latest Pattern issued by various Exam Conducting Bodies ISO SZF HO UIMO IOEL ITHO NSO IEO IRAO NSTSE SEAMO IMO IOS IGKO UIEO Previous years Solved Papers 2011 to 2020 Assessment through 3 Levels of Questions Level 1 Level 2 Achievers Answer Key with Explanations Amazing Facts Fun Trivia Did You Know Concept Review with Examples Latest Sample Papers with complete solutions

Bairn - CBSE - Success for All - Mathematics (Standard) - Class 10 for 2021 Exam: (As Per Reduced Syllabus) Munish Sethi, Success for All Covers complete theory practice and assessment of Mathematics for Class 10 The guide has been divided in 15 chapters giving coverage to the syllabus Each Chapter is supported by detailed theory illustrations all types of practice questions Special focus on New pattern objective questions Every Chapter accompanies Basic Concepts Topicwise NCERT Questions and Answers exam practice and self assessment for quick revisions The current edition of Success for All for Class 10th is a self Study guide that has been carefully and consciously revised by providing proper explanation guidance and strictly following the latest CBSE syllabus issued on 31 March 2020 The whole syllabus of the book is divided into 15 chapters and each Chapter is further divided into chapters To make students completely ready for exams This book is provided with detailed theory Practice Questions in all chapters Every Chapter in this book carries summary exam practice and self assessment at the end for quick revision This book provides 3 varieties of exercises topic exercise for assessment of topical understanding Each topic of the Chapter has topic exercise NCERT Questions and Answers it contains all the questions of NCERT with detailed solutions and exam practice It contains all the Miscellaneous questions like MCQs true and false fill in the blanks VSAQ s SAQ s LAQ s Well explained answers have been provided to every question that is given in the book All in One Mathematics for CBSE Class 10 has all the material for learning understanding practice assessment and will surely guide the students to the way of success

Chapterwise Topicwise Solved Papers Mathematics for Engineering Entrances 2020 B L Sharma, 2019-08-29 For cracking any competitive exam one need to have clear guidance right kind of study material and thorough practice When the preparation is done for the exams like JEE Main and NEET one need to have clear concept about each and every topic and understanding of the examination pattern are most important things which can be done by using the good collection of Previous Years Solved Papers Chapterwise Topicwise Solved Papers MATHEMATICS for Engineering Entrances is a master collection of exams questions to practice for JEE Main Advanced 2020 which have been consciously revised as per the latest pattern of exam It carries 15 Years of Solved Papers 2019 2005 in both Chapterwise and topicwise manner by giving the full coverage to syllabus This book is divided into parts based on Class XI and XII NCERT syllabus covering each topic This book gives the complete coverage of Questions asked in JEE Main Advanced AIEEE IIT JEE BITSAT UPSEE MANIPAL EAMCET WB JEE etc

Thorough practice done from this book will the candidates to move a step towards their success

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Iit-Jee-Main & Advanced Chapter-Wise Solved Papers: 2005-2020 Mathematics Ncert Based (Revised 2021) Kanak Jain & Rakesh Lokwani, 2018-08-19

IIT JEE MAIN ADVANCED CHAPTER WISE SOLVED PAPERS 2005 2020 MATHEMATICS NCERT BASED

This comprehensive book written by Kanak Jain and Rakesh Lokwani is designed to help aspiring students prepare for the highly competitive IIT JEE Main and Advanced exams. It provides a collection of solved papers from 2005 to 2020 focusing specifically on mathematics and following the NCERT syllabus. The revised edition of this book ensures that students have access to updated content and practice questions aligned with the latest exam patterns.

Key Aspects of the Book

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Kanak Jain and Rakesh Lokwani are experienced authors and educators in the field of mathematics. They have dedicated their expertise to creating comprehensive study materials for students aspiring to crack the IIT JEE Main and Advanced exams. With their deep understanding of the subject and extensive knowledge of the exam patterns they have crafted a valuable resource that enables students to enhance their problem solving abilities and achieve their academic goals.

43 Years Chapterwise Topicwise Solved Papers (2021-1979) IIT JEE Mathematics Amit M Agarwal, 2021-01-11

1 43 Years Chapterwise and Topicwise Solved papers for JEE Main
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Arihant CBSE Term 1 Mathematics (Standard) Sample Papers Questions for Class 12 MCQ Books for 2021 (As Per CBSE Sample Papers issued on 2 Sep 2021) Sagar Verma,Raju Regar,2021-10-12 This year has witness major changes in the field of academics where CBSE s reduced syllabus was a pleasant surprise while the introduction of 2 Term exam pattern was little uncertain for students parents and teachers as well Now more than ever the Sample Papers have become paramount importance of subjects with the recent changes prescribed by the board Give final punch to preparation for CBSE Term 1 examination with the all new edition of Sample Question Papers that is designed as per CBSE Sample Paper that are issued on 02 Sept 2021 for 2021 22 academic session Encouraging with the motto of Keep Practicing Keep Scoring here s presenting Sample Question Paper Mathematics for Class 12th that consists of 1 10 Sample Papers along with OMR Sheet for quick revision of topics 2 One Day Revision Notes to recall the concepts a day before exam 3 The Qualifiers Chapterwise sets of MCQs to check preparation level of each chapter 4 CBSE Question Bank are given for complete practice 5 Latest CBSE Sample Paper along with detailed answers are provided for better understanding of subject TOC One Day Revision The Qualifiers CBSE Qualifiers CBSE Question Bank Latest CBSE Sample Paper Sample Paper 1 10 *ICSE Mathematics Papers-X D.K. Bhattacharyya, SSC Mathematics Topic-wise 44 Solved Papers (2010-2019) 3rd Edition* Disha Experts,2019-12-04 **Oswaal ISC Question Bank Class 11 Mathematics | Chapterwise | Topicwise | Solved Papers | For 2025 Exams** Oswaal Editorial Board,2024-03-02 Description of the Product 100% Updated with Latest 2025 Syllabus Typologies of Questions for 2024 Crisp Revision with Topic wise Revision Notes Smart Mind Maps Extensive Practice with 1000 Questions Self Assessment Papers Concept Clarity with 500 Concepts 50 Concept Videos 100% Exam Readiness with Answering Tips Suggestions *2024-25 CTET/TET Class VI-VIII Math & Science Solved Papers* YCT Expert Team , 2024 25 CTET TET Class VI VIII Math Science Solved Papers 752 1495 E This book contains the 71 sets of previous year s solved papers with 4262 objective questions *(Free Sample) SSC Mathematics Topic-wise 44 Solved Papers (2010-2019) 3rd Edition* Disha Experts,2019-12-24 *73 Topic-wise 2025 - 2010 SSC Mathematics Previous Year Solved Papers - CGL (Tier I & II), CHSL (Tier I & II), MTS & CPO 7th Edition | 3200+ Quantitative Aptitude PYQs* Disha Experts, The updated 7th Edition of the Bestselling book 73 Topic wise 2025 2010 SSC Mathematics Previous Year Solved Papers consists of original past solved papers conducted for the major SSC Exams SSC CGL 10 2 CHSL Sub Inspector and Multi Tasking of Past 16 Years from the year 2010 to 2025 The coverage of the papers has been kept RECENT 2010 to 2025 as they actually reflect the changed pattern of the SSC exams The book also includes 2022 25 SSC CGL tier II question paper In all there are 73 Question papers covering 3200 MCQs from 2010 to 2025 which have been divided into 14 Topics The solution of each and every question is provided in detail step by step so as to provide 100% concept clarity to the students Practicing these questions aspirants will come to know about the pattern and toughness of the questions asked in the examination In the end this book will make the aspirants competent confident enough to crack the uncertainty of success in the Entrance

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CBSE Class 10 Mathematics Handbook - MINDMAPS, Solved Papers, Objective Question Bank & Practice Papers Disha Experts, 2019-08-04 **2025-26 TGT/PGT NCERT Mathematics Solved Papers** YCT Expert Team , 2025 26 TGT PGT NCERT Mathematics Solved Papers 592 995 E This book contains 46 sets of the previous year solved papers *SSC Mathematics Topic-wise LATEST 39 Solved Papers (2010-2017) 2nd Edition* Disha Experts, The thoroughly revised updated 2nd Edition of the book Topic wise Solved Paper SSC Mathematics consists of past solved papers of SSC CGL 10 2 CHSL Sub Inspector and Multi Tasking from 2010 to 2017 The coverage of the papers has been kept RECENT 2010 to 2017 as they actually reflect the changed pattern of the SSC exams In all there are 36 Question papers from 2010 to 2017 which have been provided topic wise along with detailed solutions Practicing these questions aspirants will come to know about the pattern and toughness of the questions asked in the examination In the end this book will make the aspirants competent enough to crack the uncertainty of success in the Entrance Examination The strength of the book lies in the originality of its question papers and Errorless Solutions The solution of each and every question is provided in detail step by step so as to provide 100% concept clarity to the students

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