

## Jee Mains 2013 Solution Key

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16 Years' Solved Papers JEE Main 2021 Oswaal Books

1. Chapterwise Solution Chemistry has been designed for the preparation of JEE Main Exam 2. The book is divided into 21 chapters 3. It provides detailed solutions of all chapters [2002 -2018] 4. 3 practice sets and 3 Free Online Practices Sets for practice 5. Solved paper for previous Years ' Questions [2015 - 2018] JEE Entrance is the gateway to some of the prestigious engineering technology institutions and every year nearly 10 Lakhs students appear in the race. The rigorous practice is required to get through the exam. Preparation never ends until the last minute if there is no proper planning done before the exam. To make students well versed with pattern as well as the level of the questions asked in the exam, this book contains Chapterwise Solutions of the questions asked in Last 19 Years ' Examinations of JEE Main Chapterwise. Solutions to all the questions have been kept very detailed and accurate for the better understanding. Along with the indication of level exam, this book also teaches you how to solve the question objectively in the examination. In order to give the student a complete practice, along with Chapterwise solutions it contains 3 Practice Sets aligned exactly on JEE Main Syllabus and pattern. TABLE OF CONTENT JEE MAIN ONLINE PAPER 2020 (Jan & Sep Attempt), Some basic concepts of Chemistry, States of Matters, Atomic Structure, Chemical Bonding, Thermodynamics, Solutions, Equilibrium, Redox Reaction and Electrochemistry, Chemical Kinetics and Surface Chemistry, Periodicity of Elements, Principles and Processes of Metallurgy, Hydrogen, s-Block and p-Block Elements, d and f block Elements and Coordination Chemistry, Environmental Chemistry, General Organic Chemistry, Hydrocarbons and their Halogen Derivatives, Organic Compounds Containing Oxygen (Alcohols, Ethers, Aldehydes, ketones, Carboxylic Acids and their Derivatives), Organic Compounds Containing Nitrogen (Amines and Diazonium Salts), Polymers and Biomolecules, Analytical Chemistry and Chemistry in Daily life, Practice Sets for JEE MAIN: Practice Sets (1-3).

Chemistry Class - XII - SBPD Publications [2022-23] Disha Publications

- The thoroughly Revised & Updated 18th edition of the book " Errorless 45 Previous Years IIT JEE Advanced (1978 - 2022) + JEE Main (2013 - 2022) CHEMISTRY Chapter-wise & Topic-wise Solved Papers " is an integrated book, which contains Chapterwise & Topicwise collection of previous JEE Advanced (including 1978 - 2012 IIT-JEE & 2013 - 22 JEE Advanced) & past JEE Main 2013 to 2020 (Offline Papers) and 2013 - 2022 (all 102 Online Papers).
- Thus the Book covers 45 IIT JEE/ JEE Advanced Papers and 110 JEE Main Papers (102 Online + 8 Offline).
- The Book is divided into 31 chapters as per NCERT Book. With this new feature this book has become the 1st to adopt NCERT Chapterisation.
- Each chapter divides the questions into 2-4 topics which are further divided into 10 categories of questions - Fill in the Blanks, True/ False, MCQ 1 correct, MCQ more than 1 correct, Passage Based, Assertion-Reason, Multiple Matching, Integer Answer, Numeric Answer and Subjective Questions.
- All the Screening and Mains papers of IIT-JEE have been incorporated in the book.
- Detailed solution of each and every question has been provided for 100% conceptual clarity of the student. Well elaborated detailed solutions with user friendly language are provided at the end of each chapter.
- Solutions have been given with enough diagrams, proper reasoning to bring conceptual clarity.
- The students are advised to attempt questions of a topic immediately after they complete a topic in their class/ school/ home. The book contains around 4600+ Milestone Problems in Physics.

MTG 22 Years Previous Year Papers JEE Main Mathematics (For 2024 Exam)

Disha Publications

- The book "42 Years IIT-JEE Advanced + 18 yrs JEE Main Topic-wise Solved Paper PHYSICS" is the first integrated book, which contains topic-wise collection of past JEE Advanced (including 1978-2012 IIT-JEE & 2013-19 JEE Advanced) questions from 1978 to 2019 and past JEE Main (including 2002-2012 AIEEE & 2013-19 JEE Main) questions from 2002 to 2019.
- The book provides 2 Sets of JEE Main 2019 (1 of each of the 2 Phases) & Paper 1 & 2 of JEE Advanced 2019.
- The book is divided into 17 chapters. The flow of chapters has been aligned as per the NCERT books.
- Each chapter divides the questions into 9 categories (as per the NEW IIT pattern) - Fill in the Blanks, True/False, MCQ 1 correct, MCQ more than 1 correct, Passage Based, Assertion-Reason, Multiple Matching, Integer Answer and Subjective Questions.
- All the Screening and Mains papers of IIT-JEE have been incorporated in the book.
- Detailed solution of each and every question has been provided for 100% conceptual clarity of the student. Well elaborated detailed solutions with user friendly language provided at the end of each chapter.
- Solutions have been given with enough diagrams, proper reasoning to bring conceptual clarity.
- The students are advised to attempt questions of a topic immediately after they complete a topic in their class/school/home. The book contains around 3380+ MILESTONE PROBLEMS IN Mathematics.

40 Years IIT-JEE Advanced + 16 yrs JEE Main Topic-wise Solved Paper Physics with Free ebook 13th Edition SBPD Publications

Our Distance Learning Program is for students who are preparing for competitive entrance exams such as JEE-Main / JEE-Advanced / NEET / AIIMS / JIPMER / KVPY / NTSE / OLYMPIAD / IMO / RMO / IJSO etc. Study material made by experienced faculty on the latest updated patterns. We updates our study material on time to time, which is suitable for all competitive entrance examinations. Study material contain complete necessary theory, solved examples, practice exercises along with board syllabus (CBSE / State Board and other boards) on the basis of latest patterns of entrance exams and board patterns. We also provide All India Test Series, DPPs (Daily Problem Practice Papers) and Question Bank for JEE -Main / JEE-Advanced / NEET / AIIMS / JIPMER / KVPY / NTSE / OLYMPIAD / IMO / RMO / IJSO. Study material available from Class-6th to Class-12th (Physics, Chemistry, Mathematics, Biology, Science, Mental Ability) Note: Number of pages and front cover images can be changed according to the requirement needs because its update on time to time. One subject can have one, two or more modules (booklet) e.g. Class-11 Chemistry book contain three modules Module-1 (Physical Chemistry), Module-2 (Organic chemistry), Module-3 (Inorganic Chemistry).

41 Years (1978-2018) JEE Advanced (IIT-JEE) + 17 yrs JEE Main Topic-wise Solved Paper Physics 14th Edition Arihant Publications India limited

Syllabus : Unit I : Solid State Unit II : Solutions Unit III : Electrochemistry Unit IV : Chemical Kinetics

Unit V : Surface Chemistry Unit VI : General Principles and Processes of Isolation of Elements Unit VII : "p"-Block Elements Unit VIII : "d" and "f" Block Elements Unit IX : Coordination Compounds Unit X : Haloalkanes and Haloarenes Unit XI : Alcohols, Phenols and Ethers Unit XII : Aldehydes, Ketones and Carboxylic Acids Unit XIII : Organic Compounds Containing Nitrogen Unit XIV : Biomolecules Unit XV : Polymers Unit XVI : Polymers Unit XVII : Chemistry in Everyday Life Content : 1. Solid State 2. Solutions 3. Electro-Chemistry 4. Chemical Kinetics 5. Surface Chemistry 6. General Principles And Processes Of Isolation Of Elements 7. P-Block Elements 8. D-And F-Block Elements 9. Coordination Compounds And Organometallics 10. Haloalkanes And Haloarenes 11. Alcohols, Phenols And Ethers 12. Aldehydes Ketones And Carboxylic Acids 13. Organic Compounds Containing Nitrogen 14. Biomolecules 15. Polymers 16. Chemistry In Everyday Life Appendix : 1. Important Name Reactions And Process 2. Some Important Organic Conversions 3. Some Important Distinctions

43 Years JEE Advanced (1978 - 2020) + JEE Main Chapterwise & Topicwise Solved Papers Physics 16th Edition Disha Publications

The thoroughly revised & upgraded 9th Edition of JEE Main Topic-wise Solved Papers (2002-17) provides you the exact level/ trend/ pattern of questions asked on each topic in the examination. The book consists of the past 11 years AIEEE (2002-12) solved papers and 5 years of JEE Main 2013 - 2017 papers. The book has been divided into 3 parts - Physics, Chemistry and Mathematics. Each subject is further distributed into around 28-30 chapters each. Thus making it 90 chapters/ topics in all. Each Chapter/ Topic provides questions pertaining to all the concepts related to it from 2002 to 2017 exams. A total of 17 Question Papers (also including the AIEEE 2011 Rescheduled paper) have been distributed into these topics. The questions in each topic are immediately followed by their detailed solutions. The book is FULLY SOLVED and constitutes around 2100 most important MCQs.

18 Years JEE MAIN Chapter-wise Solved Papers (2002 - 19) 11th Edition Disha Publications

The thoroughly revised & upgraded 10th Edition of JEE Main Topic-wise Solved Papers (2002-18) provides you the exact level/ trend/ pattern of questions asked on each topic in the examination. The book consists of the past 11 years AIEEE (2002-12) solved papers and 6 years of JEE Main 2013 - 2018 papers. The book has been divided into 3 parts - Physics, Chemistry and Mathematics. Each subject is further distributed into around 28-30 chapters each. Thus making it 90 chapters/ topics in all. Each Chapter/ Topic provides questions pertaining to all the concepts related to it from 2002 to 2018 exams. A total of 18 Question Papers (also including the AIEEE 2011 Rescheduled paper) have been distributed into these topics. The questions in each topic are immediately followed by their detailed solutions. The book is FULLY SOLVED and constitutes around 2240+ most important MCQs.

17 Years' Chapterwise Solutions Chemistry JEE Main 2020 SBPD Publications

9 YEAR-WISE JEE Main Solved Papers (2021 - 2013) contains Past 9 Solved Papers of the JEE Main exam. The papers are provided Year-wise which can also be attempted as Mock Tests. The detailed solution to each paper is provided immediately after the Paper. The Answerkeys have been validated with NTA.

TARGET JEE Main 2018 (16 Solved Papers 2002-2017 + 10 Mock Tests) with 18 Online JEE Main Past Papers ebook 18th Edition Disha Publications

TARGET JEE Main 2017 with 18 Online JEE Main ebook helps in TESTING & REVISING all important concepts necessary to crack the JEE Main exam. The latest edition now comes with the Most Wanted Unseen 18 Online JEE Main Papers (2012-2017) ebook. The ebook provides all the papers with their detailed solutions. The book consists of : • Previous Year papers of AIEEE (2002 to 2012) & JEE Main 2013 - 2017; • The book also includes the rescheduled paper of 2011. • The book includes 10 Mock tests for JEE Main, along with detailed solutions.

20 Years Chapterwise Topicwise (2021-2002) JEE Main Solved Papers Mathematics Arihant Publications India limited

- The book "41 Years IIT-JEE Advanced + 17 yrs JEE Main/ AIEEE Topic-wise Solved Paper PHYSICS" is the first integrated book, which contains topic-wise collection of past JEE Advanced (including 1978-2012 IIT-JEE & 2013-18 JEE Advanced) questions from 1978 to 2018 and past JEE Main (including 2002-2012 AIEEE & 2013-18 JEE Main) questions from 2002 to 2018.
- The book is divided into 17 chapters. The flow of chapters has been aligned as per the NCERT books.
- Each chapter divides the questions into 9 categories (as per the NEW IIT pattern) - Fill in the Blanks, True/ False, MCQ 1 correct, MCQ more than 1 correct, Passage Based, Assertion-Reason, Multiple Matching, Integer Answer and Subjective Questions.
- All the Screening and Mains papers of IIT-JEE have been incorporated in the book.
- Detailed solution of each and every question has been provided for 100% conceptual clarity of the student. Well elaborated detailed solutions with user friendly language provided at the end of each chapter.
- Solutions have been given with enough diagrams, proper reasoning to bring conceptual clarity.
- The students are advised to attempt questions of a topic immediately after they complete a topic in their class/ school/ home. The book contains around 3280+ MILESTONE PROBLEMS IN Physics.

Chemistry Class 12 Disha Publications

The 11th Edition of JEE Main Topic-wise Solved Papers (2002 - 19) provides you the exact level/ trend/ pattern of questions asked on each topic in the examination. The book consists of the past 11 years AIEEE (2002-12) solved papers and 7 years of JEE Main 2013 - 2019 papers. The book includes 2 papers of 2019 - 1 of Phase I & 1 of Phase II. The book has been divided into 3 parts - Physics, Chemistry and Mathematics. Each subject is further distributed into around 28-30 chapters each as per NCERT. Thus making it 90 Chapters in all. Each Chapter provides questions pertaining to all the concepts related to it from 2002 to 2019 exams. A total of 20 Question Papers (also including the AIEEE 2011 Rescheduled paper) have been distributed into these topics. The questions in each topic are immediately followed by their detailed solutions. The book is FULLY SOLVED and constitutes around 2420+ most important MCQs.

(Free Sample) Errorless 45 Previous Years IIT JEE Advanced (1978 - 2022) + JEE Main (2013 - 2022)

CHEMISTRY Chapterwise & Topicwise Solved Papers 18th Edition | PYQ Question Bank in NCERT Flow with 100% Detailed Solutions for JEE 2023 Disha Publications

1. JEE Main Online Solved Papers is a complete practice package of JEE Mains 2. This book includes 58 question papers of JEE Main Online papers 3. Solved Papers from 2019 -2021 are given for practice 4. Student friendly solutions are given for each question for the quick revision of concepts "Practice makes a man perfect," is utmost relevant phrase that fits exactly on the JEE Main aspirants. Devoting most of the time on solving previous years Solved papers are highly stressed by various coaching experts as they help students in better preparation by giving them an opportunity to revise the syllabus well before the actual JEE Main Exam. Introducing, the all-new edition of 'JEE Main Online Solved Papers - Physics' that is aimed to meet the needs of the JEE aspirants for an essential step in their preparation. Serving as a key to the right preparation, this book gathers all 58 Sets of Online papers from 2019 to 2021. Each attempted month has a bunch of question papers that are categorized under 2 shifts. The Question Papers of every month is structured in such a way that tests the aptitude, analytical, logical, and reasoning skills of the aspirants. At the end of each month, Solutions are provided with well-detailed & authentic answers for better understanding. TOC JEE Main Online Solved Papers 2021 - February Attempt, March Attempt, July Attempt, August & September Attempt, JEE Main Online Solved Papers 2020 - January Attempt, September Attempt, JEE Main Online Solved Papers 2019 - January Attempt,

September Attempt.

*42 Years (1978-2019) JEE Advanced (IIT-JEE) + 18 yrs JEE Main (2002-2019) Topic-wise Solved Paper Physics 15th Edition* Arihant Publications India limited

Engineers are known to set the foundations and ultimately contributing in building the nation. This is the reason why it is considered as one of the top professions in the world. To be a certified engineer from reputed institutions like IITs, NITs, IIITs, etc., candidates/aspirants has to go through Joint Entrance Exam (JEE) being conducted by CBSE every year and requires an intense groundwork on subjects of Physics, Chemistry and, Mathematics from Class XI and XII syllabi. The latest edition of 16 Years' JEE MAIN Solved Papers is designed with a purpose of facilitating an effective way of smart preparation in students to clear the upcoming JEE MAIN. As the name of the book already unfolds its key feature, with this new edition, the invaluable benefits of solving such good number of precisely solved papers continues to help students in their path to success. The detailed solutions to the 16 Years' Solved Papers of Previous Years' Questions from 2003 to 2018 can be easily comprehended by the students and 3 Sets of Practice are also given to overcome the doubts and fears out of exam. This is a student-friendly book with its contents sounding like interactive sessions to help you progress more in the race of winning a seat in JEE MAIN 2019. Table of Content JEE Main 2018, JEE Main 2017, JEE Main 2016, JEE Main 2015, JEE Main 2014, JEE Main 2013, AIEEE-2012, AIEEE-2011, AIEEE-2010, AIEEE-2009, AIEEE-2008, AIEEE-2007, AIEEE-2006, AIEEE-2005, AIEEE-2004, AIEEE-2003, Practice Set-1, Practice Set-2, Practice Set-3

*29 Online JEE Main Year-wise Solved Papers (2020 - 2012) with 5 Online Mock Tests 3rd Edition* Disha Publications

The 23rd Edition of Bestseller 'TARGET JEE Main 2022' helps in understanding the Test, Exam Pattern, Solving Past Questions & Practicing Mock Test to Revise all important concepts necessary to crack the JEE Main exam. • The book provides 9 Past (2013-2021) & 10 Mock (on Latest 90 Question Pattern with optional Numeric Answer Questions) papers with their detailed solutions. • Each Mock Test provides 90 questions divided into 3 sections of 30 Questions each - Physics, Chemistry, & Mathematics. Each section has 2 Parts - Part I of 20 compulsory MCQs; Part II of 15 Numeric Answer Questions where only 5 needs to be attempted. along with detailed solutions. • Mastery over this book will definitely improve your Score by 15%.

*JEE Main 2018 Resource Book (Solved 2002 - 2017 Papers + 24 Part Tests + 10 Mock Tests) with 5 Online Tests 5th Edition* Disha Publications

Success Mantras of NEET/ JEE Toppers with Video Support Results of a survey said that the difference between Topper & an Average student is not much in terms of Subject knowledge, intelligence or hard work, but the major difference is in terms of study techniques and approach towards exam. Hard work should bring success but only when coupled with efficient and appropriate study techniques. The book is based on success story of hundreds of toppers of different exams. The book/seminar recapitulates and reinforces the basic study techniques adopted by toppers and helps in mastering skills & techniques to learn more in less time and with less stress. Some of the topics covered • How to master Fundamentals • How to sharpen Problem solving skills • Improving your Output (Net Score) • Tips and techniques on "How to attempt a Question paper?" And many more ideas/ tips to improve your score and maximise your output.

*16 Years JEE MAIN Topic-wise Solved Papers (2002-17) - 9th Edition* Disha Publications

MTG's 22 Years JEE Main Chapterwise-Topicwise Solutions Mathematics is a humongous question bank, created for students aspiring for JEE Main 2024. This chapter-wise topic-wise ebook comprises of previous 22 years of AIEEE (2012-2002) / JEE MAIN (2023-2013) question papers. The ebook exhaustively covers all the offline and online papers asked in each session of JEE Main since 2021 (February- September 2021, January- July 2022, and January- April 2023). The answer key and hints & explanations in each chapter help in providing concept clearance in each topic at the time of practice.

*TARGET NTA JEE Main 2022 Solved Papers & 10 Mock Tests on 90 Question Pattern 23rd Edition* Disha Publications

JEE Main 2019 Resource Book (Solved 2002 - 2018 Papers + 24 Part Tests + 10 Mock Tests) with 5 Online Tests 5th Edition has been divided into THREE parts: Part A: 24 Unit-wise Tests - 8 each in Physics, Chemistry & Mathematics Part B: JEE Main/ AIEEE past Solved Papers (2002 - 2018) Papers Part C: 10 Full Syllabus Mock Tests - 5 in the book and 5 ONLINE empowered with Insta Results and Feedback Reports. Thus all-in-all it is a 100% solution for both Online and Offline JEE Main exam.

*TARGET JEE Main 2020 (2002 - 2019 Solved Papers + 10 Mock Tests) 20th Edition* Disha Publications

This title contains an Access Code to access the Online Material. In case you face any difficulty, email at ebooks.support@aiets.co.in. 21 Online JEE Main Year-wise Solved Papers for NTA JEE Main consists of Past Year-wise Solved Papers from 2012 - 2018. The book contains 1890 past MCQs - 630 each in Physics, Chemistry & Mathematics. The students can also appear in these tests as Practice Sets.

**17 Years JEE MAIN Topic-wise Solved Papers (2002-18) 10th Edition** Disha Publications

Physics for Joint Entrance examinations is designed to help aspiring IIT-JEE students - to develop their caliber, aptitude and to strengthen their grasp and understanding of concepts of physics and their applicability at the IIT-JEE level. Salient features: • Synopsis has been given in the beginning of each Chapter for a quick Review just before the examination. • Includes chapter-wise solved papers from 2005-2020 with Answers and significant hints/solutions wherever essential. • Strictly based on the NCERT pattern • 5 set of mock tests is included along with the book to cross-check the preparation before the exam. Try to complete the mock test in one sitting is so that you can have the feeling of sitting in the examination hall.

**43 Years JEE Advanced (1978 - 2020) + JEE Main Chapterwise & Topicwise Solved Papers**

**Mathematics 16th Edition** Disha Publications

1. Solid State 2. Solutions 3. Electro-Chemistry 4. Chemical Kinetics 5. Surface Chemistry 6. General Principles And Processes Of Isolation Of Elements 7. P-Block Elements 8. D-And F-Block Elements 9. Coordination Compounds And Organometallics 10. Haloalkanes And Haloarenes 11. Alcohols, Phenols And Ethers 12. Aldehydes Ketones And Carboxylic Acids 13. Organic Compounds Containing Nitrogen 14. Biomolecules 15. Polymers 16. Chemistry In Everyday Life Appendix : 1. Important Name Reactions And Process 2. Some Important Organic Conversion 3. Some Important Distinctions Long - Antilog Table Board Examination Papers.