

## IITJEE CHEMISTRY SAMPLE PAPER - I

Data required : Mass Number : H = 1, C = 12, Cl = 35.5

Gas constant : 0.0821 l atm K<sup>-1</sup> mol<sup>-1</sup>  
8.314 JK<sup>-1</sup>mol<sup>-1</sup>

### SECTION - I

#### Straight Objective Type

This section contains 8 multiple choice questions numbered 1 to 8. Each question has 4 choices (a), (b), (c) and (d), out of which **ONLY ONE** is correct.

- Which of the following is incorrect statement about OSF<sub>4</sub>?
  - S atom has sp<sup>3</sup>d hybridization.
  - OSF<sub>4</sub> has distorted trigonal pyramidal shape.
  - O atom is present at one of the equatorial position.
  - There is no lone pair on S.
- Which one of the following statement about H<sub>3</sub>BO<sub>3</sub> is not correct?
  - It is a weak tribasic acid.
  - It is prepared by acidifying an aqueous solution of borax.
  - It has a layer structure in which planar BO<sub>3</sub> units are joined by hydrogen bonds.
  - It does not act as proton donor as it acts as a Lewis acid by accepting hydroxyl ions.
- For a chemical reaction A → product, the mechanism of the reaction postulated was as follows:



If the reaction occurred with individual rate constants k<sub>1</sub>, k<sub>2</sub> and k<sub>-1</sub>, determine activation energy for the overall reaction if the activation energies associated with these rate constants are E<sub>a1</sub> = 180 kJ mole<sup>-1</sup>, E<sub>a2</sub> = 90 kJ mole<sup>-1</sup> and E<sub>a3</sub> = 40 kJ mole<sup>-1</sup>.

- 310 kJ
- 10 kJ
- 130 kJ
- 70 kJ

Space for rough work

# Iitjee Chemistry Sample Paper V

**IM Harris**



## **Iitjee Chemistry Sample Paper V:**

### **Iit-Jee Main & Advanced Chapter-Wise Solved Papers: 2005-2022 Physics (Ncert Based)** Subhash

Jain,2022-12-26 The new edition of IIT JEE Main and Advanced Physics is designed to present a whole package of Physics study preparation sufficing the requirements of the aspirants who are preparing for the upcoming exam Highlights of the Book JEE Main and Advanced Solved Papers 2021 and 2020 included Exam Patterns for JEE Main and Advanced included An Analysis of IIT JEE included Concepts are explained in detail Chapters are compiled with Previous Years Questions Answers to Questions included with Explanations Presence of accurate Figures and Tables Five sets of Mock Tests are also included at the end Based on pattern of NCERT Books 17 Years of IIT JEE Chapter wise and Topic wise Solved Papers PHYSICS with Value with Value Added Notes covers the whole syllabus distributing in 24 Chapters This book serves to be a suitable Study Guide for the aspirants with focus on Qualitative Preparation and Systematic understanding of the Syllabus and Examination Level With provision for self assessment in Mock Tests this book stands beneficial in imprinting concepts in the mind The book comprises chapters such as Physical World And Measurement Laws Of Motions Rotational Motions Gravitation Sound Waves Current Electricity Atomic Structure Electronics And Communication System and so on *Iit-Jee Main and Advanced Physics* Subhash Jain,2022-07-01 The new edition of IIT JEE Main Highlights of the Book Exam Pattern and Physics Syllabus for JEE Main and Advanced included An Analysis of IIT JEE included Chapter wise Theory detailed with 1000 examples 5000 Chapter wise Multiple Choice Questions 2500 Chapter wise Different Format Questions Chapter wise Assessment Test Chapter wise HOTS Problems Experimental Skills from Class XI XII Experiments Relativistic Mechanics Appendix Tables Glossary JEE Main and Advanced Mock Test NEET Mock Test Answers to Questions included with Explanations Presence of accurate Figures and Tables Physics is a combination of experimenting observation and the analysis of phenomena with mathematical and computational tools Thus this book serves to be a suitable Study Guide for the aspirants with focus on Qualitative Preparation and Systematic understanding of the Syllabus and Examination Level With provision for self assessment in Mock Tests this book stands beneficial in imprinting concepts in the mind **Iit-Jee-Main & Advanced**

**Chapter-Wise Solved Papers: 2005-2020 Physics Ncert Based (Revised 2021)** Subhash Jain,2018-08-19 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 JEE MAIN ADVANCED CHAPTER WISE SOLVED PAPERS PHYSICS by Subhash Jain This book is a valuable resource for students preparing for the Joint Entrance

Examination JEE for admission to top engineering colleges in India Authored by Subhash Jain the book presents chapter wise solved papers for the Physics section of JEE Main and JEE Advanced exams It offers a systematic approach to mastering the subject and solving complex physics problems encountered in these competitive exams Key Aspects of the Book JEE MAIN ADVANCED CHAPTER WISE SOLVED PAPERS PHYSICS by Subhash Jain JEE Physics Preparation Subhash Jain s book is designed to help JEE aspirants tackle the Physics section with confidence providing comprehensive solutions and explanations for each chapter Chapter Wise Approach The book follows a structured chapter wise format allowing students to focus on specific topics and hone their problem solving skills Exam Readiness By offering solved papers practice questions and detailed solutions the book equips students with the knowledge and skills needed to excel in the highly competitive JEE exams Author Subhash Jain has crafted a valuable resource to aid students in their preparation for JEE Physics His expertise in the subject matter and commitment to providing effective solutions make this book a useful tool for JEE aspirants

Algebra-2: Course in Mathematics for the IIT-JEE and Other Engineering Entrance Examinations K.R. Choubey, Ravikant Choubey, Chandrakant Choubey, **11 Years Solved Papers IIT JEE Advanced & IIT JEE 2022** Arihant Experts,2021-11-20 11 Years IIT JEE Solved Papers provides solid practice strong and strong grip on concepts Provides solved papers 2021 2011 IIT JEE JEE Main Advanced for practice Inculcates problem solving skills in students Step by step detailed solutions to questions in all three subjects Builds the concept deeply from the basic level for better understanding Solved Papers of Previous Years Questions uphold numerous advantages in cracking various entrances and competitive exams A regular practice from well versed solved papers help students to get familiar with the exam pattern its marking schemes Question Types and Important topics etc The upcoming JEE Entrance has created an intense atmosphere for aspirants who are aiming to crack the exams The newly revised edition of 11 Years JEE Advanced IIT JEE Solved Papers 2021 2012 has been cautiously designed to improve the problem solving skills on the basis of which this cutting edge examination screens candidates Enabling the in depth conceptual understanding from the very basic level this book provides a step by step solution for the questions These features will help students develop greater focus in their preparation on important and frequently asked topics **11 Years Solved Papers IIT JEE Mains & Advanced 2021** Arihant Experts,2020-12-21 1 11 Years IIT JEE Solved Papers provides solid practice strong and strong grip on concepts 2 Provides solved papers 2020 2010 IIT JEE JEE Main Advanced for practice 3 Inculcates problem solving skills in students 4 Step by step detailed solutions to questions in all three subjects 5 Builds the concept deeply from the basic level for better understanding Preparing for IIT JEE Main Advanced already creates an intense atmosphere among students who are appearing in it This revised edition of 11 years Solved Papers 2010 2020 IIT JEE Mains Advanced is cautiously designed to improve the problem solving skills in students As the name of the book suggests these previous years solved papers from 2010 to 2020 provides thorough practice Detailed step by step solutions and guidance to the analytical theoretical and calculative questions of Physics Chemistry and

Mathematics enables aspirants an in depth conceptual understanding for the topic that help them to answer correctly on time With the help of these Years Solved papers this book helps to build trust for getting success out of upcoming IIT JEE Exam 2021 TABLE OF CONTENT Solved Questions Papers 2010 2020 **Science Reporter** ,2007 *Publisher's Monthly* ,2006 *Education World* ,2006 *Lok Sabha Debates* India. Parliament. Lok Sabha,2010 The Indian National Bibliography Bellary Shamanna Kesavan,2009 **Indian National Bibliography** B. S. Kesavan,2009 **Journal of Indian Education** ,1993 **The Educational Review** ,1999 **Indian Book Industry** ,1998 *Times of India Illustrated Weekly* ,1981 *Indian Books in Print* ,2003 **Yojana** ,2005 **International Books in Print** ,1997 **Data India** ,2008

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