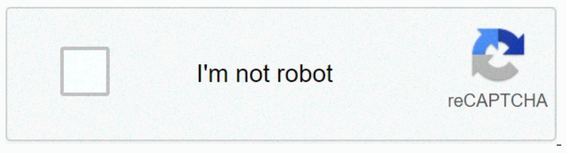

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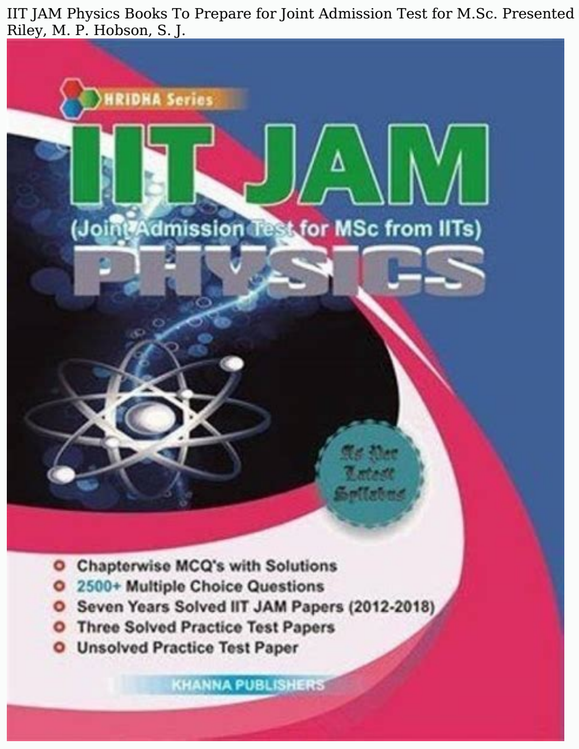

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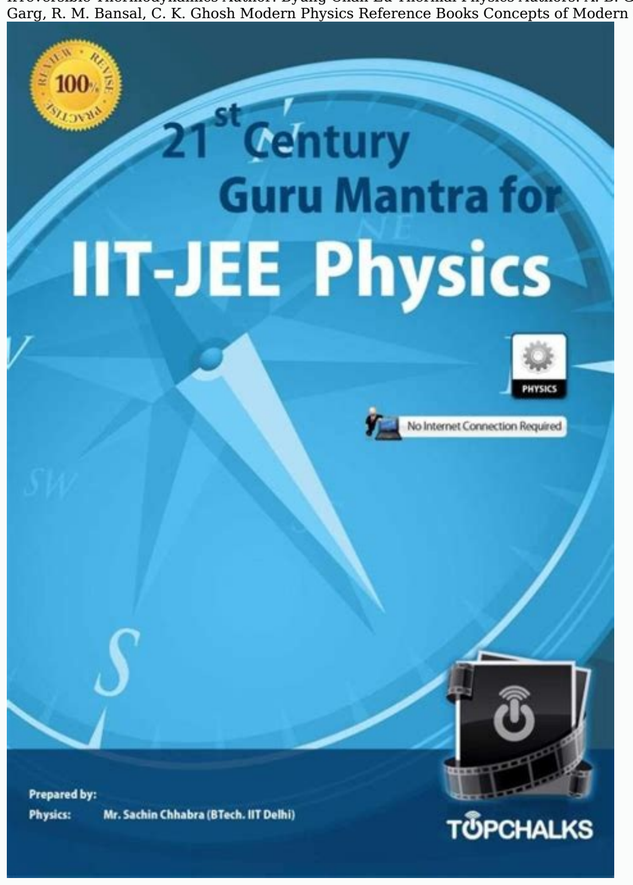
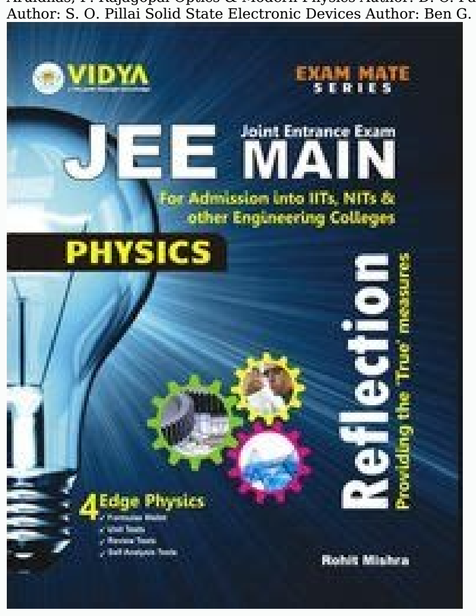


L. Theraja Modern Physics Authors: G. Aruldhas, P. Rajagopal Optics & Modern Physics Author: D. C. Pandey Solid State Physics, Devices and Electronics Books Solid State Devices and Electronics Authors: S. P. Singh and Kamal Singh Solid State Electronic Devices Authors: D. K. Bhattacharya and Rajnish Sharma Solid State Physics Author: R. K. Puri and V. K. Babbar Solid State Physics Author: S. O. Pillai Solid State Electronic Devices Author: Ben G.



Streetman and Sanjay Kumar Banerjee Electronic Devices & Circuit Theory Authors: Robert L. Boylestad and Louis Nashelsky For more suggestions about IIT JAM Physics books and study material please visit www.iitjamcoaching.com and contact us. IIT JAM Books 2023 is a popular exam conducted by IIT Kanpur through online mode for all aspirants. Candidates must refer to the IIT JAM books for preparation. IIT JAM syllabus shares a common syllabus with other engineering entrance exams. Hence, a student preparing for IIT JAM 2023 exam can take other entrance exams for other reputed colleges. Table of Contents IIT JAM 2023 Mathematics Books Candidates can check the names of the books with their authors' names. Some other best books for IIT JAM mathematics are listed below. Linear Algebra: Seymour Lipschitz (Schaum's), H. Anton, A.R.Vasishtha. Ordinary Differential Equation: Peter J. Collins, G.F. Simmons, M.D. Raisinghania. Principle of Real Analysis: S. C. Malik. Real Analysis: H. L. Royden. Modern Algebra: A. R. Vasishtha 8. University Algebra: N.

S. Gopalakrishnan. Advanced Engineering Mathematics: Erwin Kreyszig Vector Calculus: Murray R. Spiegel (Schaum's), A.R.Vasishtha IIT JAM Preparation Tips for Mathematics Candidates before the IIT JAM exam 2023 must look at the preparation tips below to secure good marks. The following tips will help aspirants study various topics and sub-topics for IIT JAM exam. Mathematics requires good practice. Candidates should solve every question in the notebooks. Candidates must do a thorough study of all the questions from each unit. Candidates should practice Differential Calculus effectively as based on the last five year's trends this topic carries the highest weightage. Candidates should try to solve questions timely and should practice more for questions taking extra time. Candidates must practice various mock tests, previous year's question papers, and sample papers to secure higher marks. Candidates can check the IIT JAM biotechnology books for the exam with the author names for each of the books. Aspirants must also refer to the IIT JAM biotechnology books PDF. Some other books IIT JAM biotechnology books are listed below. Biochemistry: Biochemistry by Lehninger Molecular Biology: Molecular Biology by Watson Cell Biology: Bruce Alberts or Lodish Development Biology: Gilbert CERT for General Reading and MCQ Books: Dinesh or Pradeep Microbiology: Prescott, Pelczar IIT JAM Preparation Tips for Biotechnology Aspirants before the IIT JAM exam 2023 must look at the preparation tips for biotechnology below to secure good marks. The following tips will help aspirants study all topics and sub-topics for IIT JAM exam. Biotechnology is a new subject added to the IIT JAM 2023. Candidates need to practice more on the subject as there are few available seats.

Therefore, competition is more in IIT JAM Biotechnology. IIT JAM biotechnology carries a maximum weightage of biology with 44%, followed by chemistry at 20% and maths and physics at 18%. Candidates must focus more on the theory part as it will take less time than solving numerical problems. IIT JAM 2023 Physics Books IIT JAM books for physics are tabulated below. Candidates can check the books for each subsection of physics below. IIT JAM Books for Physics Name of Book Author IIT-JAM: MSc (Physics) Previous Papers & Practice Test Papers (Solved) R Gupta Solved Papers & Practice Sets IIT JAM (Joint Admission Test for MSc from IITs) – Physics Arihant Publications Quantum Mechanics: Concepts and Applications Nouredine Zettili Quantum Mechanics (Schaum's Outline Series) Yoav Peleg, Reuven Pnini, Elyahu Zaarur, Eugene Hecht Introduction to Solid State Physics Charles Kittel Elementary Solid State Physics Omar Statistical Physics Reif Mathematical Methods for Physicists Arfken Classical Mechanics John R. Taylor Introduction to Classical Mechanics: With Problems and Solutions David Morin Heat and Thermodynamics Mark Zemansky Thermodynamics Kinetic Theory and Statistical Thermodynamics FW Sears, G.L. Salinger Optics Ghatak A Text-Book of Optics Brijlal and Subhramanyam Introduction to Electrodynamics Griffith Electronic Devices and Circuit Boylestad /Nashelsky Nuclear Fission and Cluster Radioactivity: An Energy-Density Functional Approach MA Hooshyar, Irwin Reichstein, F Bary Malik Nuclear Physics V Devanathan Atomic and Molecular Physics Raj Kumar Introduction to Mechanics by Kleppner and Kolenkow Mechanics by D.S. Mathur Concepts of Physics by H.C. Verma Physics of Waves and Oscillations by N.K. Bajaj Optics by Ajoy Ghatak Introduction to Electrodynamics by David J. Griffiths Thermodynamics by Garg, Bansal, and Ghosh Fundamentals of Statistical Mechanics and Thermal Physics by F. Reif.A Solid State Physics by Puri Babbar Semiconductor Physics by Streetman Some other best books for IIT JAM physics are listed below: Electronic devices and circuit theory: Boylestad and Nashelsky Op-Amps and Linear Integrated Circuits: Ramakant A. Gayakwad Digital Fundamentals: Floyd IIT JAM Preparation Tips for Physics Aspirants before the IIT JAM exam 2023 must look at the preparation tips for physics below to secure good marks. The following tips will help aspirants study all topics and sub-topics for the exam. IIT JAM physics requires a lot of practice, like mathematics. Candidates should study each topic. Aspirants must be clear about the concepts and must practice well.

Candidates must go through the syllabus carefully and clear confusion if any.

A

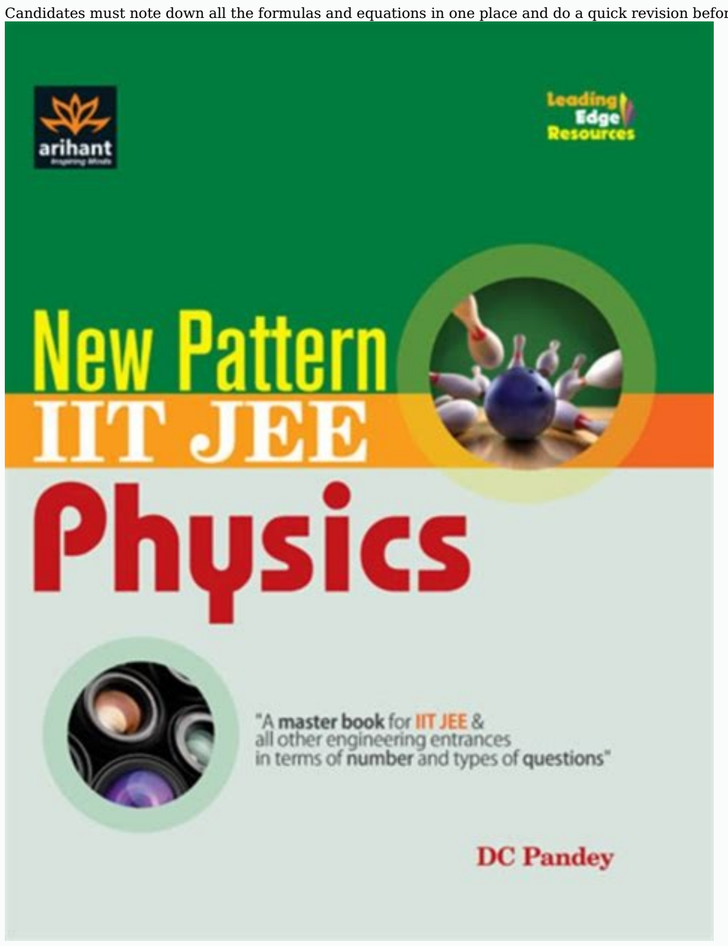
9. An observer is sitting on a horizontal platform which is rotating with a constant angular velocity. He puts an object on the smooth frictionless floor of the platform, away from the axis of rotation, with zero initial velocity with respect to him. Let the time at this instant be $t = 0$. In the frame of the platform, the object would
   (A) remain at rest for all $t > 0$
   (B) accelerate purely in a radial direction outwards for all $t > 0$
   (C) accelerate purely in a tangential direction for all $t > 0$
   (D) accelerate radially in the outward direction at $t = 0$, however the direction of acceleration changes for $t > 0$

10. Which of the following is ***INCORRECT*** for the matrix $M = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$?
   (A) It is its own inverse
   (B) It is its own transpose
   (C) It is non-orthogonal
   (D) It has eigen values ± 1

11. A combination of two thin convex lenses of equal focal lengths, is kept separated along the optic axes by a distance of 20 cm between them. The combination behaves as a lens system of infinite focal length. If an object is kept at 10 cm from the first lens, its image will be formed on the other side at a distance x from the second lens. The value of x is
   (A) 10 cm
   (B) 20 cm
   (C) 6.67 cm
   (D) infinite

12. Two point charges $+q_1$ and $+q_2$ are fixed with a finite distance d between them. It is desired to put a third charge q_3 in between these two charges on the line joining them so that the charge q_3 is in equilibrium. This is
   (A) possible only if q_3 is positive
   (B) possible only if q_3 is negative
   (C) possible irrespective of the sign of q_3
   (D) not possible at all

Candidates must note down all the formulas and equations in one place and do a quick revision before the exam date. IIT JAM Chemistry Books The best book for IIT JAM chemistry for physical, organic & inorganic are mentioned below. Candidates can check the books separately for each of these sections and can prepare for the exam in advance.



IIT JAM Books for Chemistry Name of the Book Author IIT-JAM: MSc (Chemistry) Previous Papers & Practice Test Papers (Solved) R Gupta Solved Papers & Practice Sets IIT JAM (Joint Admission Test for MSc From IITs) – Chemistry Arihant Publication Quantitative Analysis R.A. Day Jr. A.L. Underwood Elementary Organic Spectroscopy: Principles and Chemical Applications Sharma Y.R. Instrumental Approach to Chemical Analysis AK Srivastava, PC Jain Analytical Chemistry: An Introduction D.A. Skoog, D.M. West and F.J. Holler, S.R. Crouch Modern Experimental Organic Chemistry R.M. Roberts, J.C. Gilbert, L.B. Rodewald, A.S. Wingrove Physical Chemistry Keith J. Laidler, John H. Meiser Textbook Of Physical Chemistry Maron Physical Chemistry Levine Essentials of Nuclear Chemistry H. J Arnikar Physical Chemistry – A Molecular Approach D. A. McQuarrie and J. D. Simon Principles of Physical Chemistry B. R. Puri, L. R. Sharma, and M. S.
Pathania University General Chemistry CNR Rao Chemistry of Organic Natural Products O. P. Agarwal Concepts and Models of Inorganic Chemistry Bodie Douglas, Darl Mcdaniel, John Alexander Concise Inorganic Chemistry JD Lee Inorganic Chemistry AG Sharpe Inorganic Chemistry Duward Shriver, P. W. Atkins, Tina Overton, Jonathan Rourke, Mark Weller Organic Chemistry – Structure and Reactivity Seyhan N. Ege Organic Chemistry Paula Y. Bruice Organic Chemistry R.T. Morrison and R.N. Boyd Applications of Absorption Spectroscopy of Organic Compounds Dyer Organic Spectroscopy William Kemp Spectroscopy of Organic Compounds PS Kalsi IIT JAM Physical Chemistry Books Some other IIT JAM books for physical chemistry are listed below: Theory of Gases: Physical Chemistry–Peter W. Atkins Chemical and Phase Equilibria: Principals of Chemical Equilibrium & Phase Rule –K.G. Denbigh Electrochemistry: An Introduction to Electrochemistry–Samuel Glasstone Chemical Kinetics: Chemical Kinetics – Keith J. Laidler Solid State: Solid State–Peter W. Atkins Adsorption: Introduction to Surface Chemistry & Catalysis – Gabor A. Somorjai Basic Mathematical Concept: Differential Equation & Matrices–Shanti Narayan IIT JAM Inorganic Chemistry Books Periodic Table: Concise Inorganic Chemistry – J. D. Lee Chemical Bonding and Shapes of Compounds: Inorganic Chemistry – Miessler & Tarr Main Group Elements (s and p blocks): Concise Inorganic Chemistry – J. D. Lee Transition Metal (d block): Concise Inorganic Chemistry – James E. Huheey Analytical Chemistry: Quantitative Inorganic Analysis – A. I. Vogel Bioinorganic Chemistry: Inorganic Chemistry – James E. Huheey Instrumental Method of Analysis: Instrumental method – Skoog, Holler & Crouch IIT JAM Organic Chemistry Books Some other IIT JAM books for organic chemistry are listed below. Organic Chemistry: Carey & Sundberg Natural Products Chemistry: Organic Chemistry (Vol-II) – I. L. Final Heterocyclic Chemistry: Organic Chemistry (Vol-I) – I. L. Final Qualitative Organic Analysis: Introduction to Spectroscopy – Pavia, Lampman, Kriz, Vyvyan Basic Concepts in Organic Chemistry and Stereochemistry- P.S. Kalsi Organic Chemistry: Clayden, Greeves, Warner, and others Candidates can also refer to the Arihant IIT JAM chemistry book PDF. Mentioned below are the IIT JAM Spectrum Chemistry PDFs for the years 2017 and 2016. IIT JAM Preparation Tips for Chemistry Candidates before the IIT JAM exam 2023 must look at the preparation tips for chemistry below to secure good marks. The following tips will help aspirants study all topics and sub-topics for the exam. Candidates must focus more on organic chemistry as most of the questions come from this subject. Candidates must not ignore any inorganic and physical chemistry topics as they carry relatively minimum weight.
Every question is equally important. Candidates must practice all the new topics well and solve sample papers, IIT JAM mock tests, and IIT JAM previous year's question papers for practice. Candidates must refer to IIT JAM books mentioned above.
IIT JAM Geology Books IIT JAM books which can be referred to for Geology are tabulated below. Candidates can check the names of the IIT JAM books with their authors' names. Geology Books Subject Author The Planet Earth Physical geology- Mukherjee Geo-dynamic Evolution of India- K S Vaidya Geomorphology Geomorphology- M.J. Selby Introduction to Geomorphology by Kale, VS, and Gupta A Remote Sensing Geology by R.P. Gupta Structural Geology Structural Geology- Prof. Haakon Fossen Structural Geology- S.K. Ghosh/Billings/Davis Palaeontology Palaeontology: Ecosystems, Environments, and Evolution by Brenchley, P.J. and Harper, D.A.T. Introduction to Paleontology by Arnold Stratigraphy Fundamentals of Historical Geology and Stratigraphy of India by Ravindra Kumar Stratigraphic principles and practice by J.M. Weller. Mineralogy Mineralogy by Dexter Perkins/Cornelis Klein Optical Mineralogy by Paul F. Kerr Optical Mineralogy by P.K. Verma Petrology An Introduction to Igneous and Metamorphic. Petrology by John D. Winter Igneous Petrology by M.K. Bose Economic Geology Industrial minerals and rocks of India by Deb Economic Mineral Deposits by Bateman, A.M., and Jensen, M.L. Ore deposits of India their distribution and processing by Gokhale, K.V.G.K., and Rao Applied Geology Hydrogeology- Todd, and Karanth Groundwater by H.M. Ragunath IIT JAM Preparation Tips for Geology Aspirants before the IIT JAM exam 2023 must look at the preparation tips for geology below to secure good marks. The following tips will help aspirants study all topics and sub-topics for IIT JAM exam. Candidates to get higher scores must practice the theory from all the topics and the subtopics. Aspirants must practice numerically well and focus more on Economic Geology, Applied Geology, etc. Candidates must have a good command of these topics as they are the scoring topics of IIT JAM geology. Candidates must give maximum time to 'Petrology' as the question is asked in the exam frequently. IIT JAM Mathematical Statistical Reference Books Candidates must check some of the mathematical-statistical IIT JAM reference books mentioned below. Fundamentals of Mathematical Statistics: S.C. Gupta & V.K. Kapoor An Introduction to Probability and Statistics: V.K. Rohatgi Introduction to Mathematical Statistics: Robert V. Hogg and Craig Mckean Hogg Introduction to the Theory of Statistics: Mood and Graybill IIT JAM Preparation Tips for Mathematical Statistics Applicants before the IIT JAM exam 2023 must look at the preparation tips for mathematical statistics below to secure good marks. The following tips will help aspirants study all topics and sub-topics for the exam. IIT JAM for mathematical statistics will consist of a weightage of 40% from mathematics and 60% from statistics. Candidates must practice all the topics and subtopics from each subject well. Candidates must remember all the formulas and their alternatives to secure higher marks in IIT JAM exam. Aspirants are advised to practice mathematical statistics just like mathematics and must give considerable time to each question. The books which can be referred to for Biological Science are tabulated below. Candidates can check the names of the books with their authors' names. Some other books for Biological Science are listed below. Cell and Molecular Biology: Karp Biochemistry: Jeremy M. Berg, Lubert Stryer, John L. Tymoczko Developmental Biology: Scott F. Gilbert, Susan R. Singer Kuby Immunology: Barbara A. Osborne, Richard Goldsby Essentials of Physiology: Lauralee Sherwood Molecular Biology of the Cell: Bruce Alberts Microbiology: John P. Harley, Donald Klein Life Sciences: Fundamentals and Practice – I, II: Pranav Kumar, Usha Mina Principles of Genetics: Gardner, Simmons, Snustad IIT JAM 2023 MCA Books Mentioned below are the IIT JAM MCA books of various reputed authors and publishers. Candidates must refer to these books before the exam to get high scores. A text –Book of Vector Calculus: Shanti Narayan Computer Networks: Tennenbum T Computer Today: Suresh Basandra Differential Calculus: Gorakh Prasad Differential Equations: G.F.Simmons Digital Circuits and Design: Salivahan Digital Electronics: Dr. Saroj Rangnekar Digital Integrated Electronics: H.Taub & D.Shilling Digital Logic Design: Morris Mano Digital Principles & application: Malvino Digital Technology: Virendra Kumar Elementary Linear Algebra: Charles W.Curtis(C.W.Curtis) Elementary Linear Algebra: H.Anton Fundamental of Computers: P. K. Sinha Fundamental of Computers: V. Rajaraman How to solve it by Computer: R. G. Dormy Integral Calculus: Gorakh Prasad IIT JAM 2023 General Preparation Tips Authorities advise candidates to follow a proper schedule to score higher marks in the exam. Candidates appearing for the IIT JAM 2023 exam can refer to the guidelines given below for IIT JAM exam preparation: Make a proper schedule for IIT JAM exam preparation. Study 8-10 hours per day. To score well in the exam candidates, must practice various IIT JAM sample papers, previous year's papers, etc. Attempt mock tests once the syllabus and the IIT JAM previous question papers are solved. Make short notes for each of the topics and revise as required. Get Exam Alerts and Guidance Trending Articles Recent Articles