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Living Science for Classes 9 and 10 have been prepared on the basis of the syllabus developed by the NCERT and adopted by the CBSE and many other State Education Boards. Best of both, the traditional courses and the recent innovations in the field of basic Physics have been incorporated. The books contain a large number of worked-out examples, illustrations, illustrative questions, numerical problems, figures, tables and graphs.

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The thoroughly Updated 4th Edition of the book General Science & Technology Compendium for General Studies CSAT Paper 1 & State PCS provides the MOST UPDATED material for the UPSC & State PSC Prelim & Main Exam. # This new edition has been mapped with the syllabus of NCERT Class 6 to 12 Books. Most of the Concepts of NCERT are covered in these books. # Further in this new edition IAS Mains Past Questions are inserted at various places in the Chapters. Also practice Mains questions are provided at the end of each Chapter. # There are 4 Exercises in the Book - (i) IAS & State PSC Prelim Previous Year Questions, (ii) NCERT based Questions; (iii) Basic Practice MCQs & (iv) Statement & Matching MCQs. # The USP of the book is that the information is captured in a self-explanatory and easy to remember methodology which comprises of Mind Maps, Infographics, Charts, Tables and latest exam pattern MCQs. # The emphasis of the book has been on capturing each and every detail pertaining to the General Science & Technology which is important from the point of view of the exam. # The book captures most of the important questions with explanations of the past years of the IAS Prelim exam, State PSC, CDS, NDA and other competitive exams distributed in the various chapters. # The book is divided into 25 chapters.

University Physics Jagran Josh

1. This book help student to understand the theories and experiments of physics 2. The book is divided into 14 chapters for class 12th 3. Easy and interactive language eases the concepts for better understanding 4. Reference book that grasps all key points and concepts into a simpler manner, clearing all concepts. 5. The latest edition has been made to attain the entire physics concept in an easy and interactive language. 6. The book is developed volume wise to cater class wise needs. Competitive exams have been the new approach to life, for all students. Every good college is attainable through a National or Regional Level exam. NCERT Textbooks have become the benchmark for syllabus and theory for these exams. Every student needs to learn these textbooks by heart. But it's always compact and feels short. Simplified NCERT from Arihant is one of a kind reference book that helps the student to grasp all key points and concepts in a simple manner which is easy to retain yet clearing all concepts. Physics as a subject needs visualization to learn, the latest edition has been made in such a way that you can attain the entire Physics concept in an easy and interactive language. The book is developed volume-wise to cater to class-wise needs. TABLE OF CONTENT Electric Charges and Fields, Electrostatic Potential and Capacitance, Current Electricity, Moving Charges and Magnetism, Magnetism and Matter, Electromagnetic Induction, Alternating Current, Electromagnetic Waves, Ray Optics and Optical Instruments, Waves Optics, Dual Nature of Radiation and Matter, Atoms, Nuclei, Semiconductor Electronics: Materials, Devices and Simple Circuits.

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NCERT Textbooks play the most vital role in developing student's understanding and knowledge about a subject and the concepts or topics covered under a particular subject. Keeping in mind this immense importance and significance of the NCERT Textbooks in mind, Arihant has come up with a unique book containing Questions-Answers of NCERT Textbook based questions. This book containing solutions to NCERT Textbook questions has been designed for the students studying in Class XI following the NCERT Textbook for Physics. The present book has been divided into 15 Chapters namely Physical World, Motion in a Plane, Laws of Motion, Work, Energy & Power, Gravitation, Thermodynamics, Kinetic Theory, Oscillations, Waves, Motion in a Straight Line, Thermal Properties of Matter, Mechanical Properties of Solids, etc covering the syllabi of Physics for Class XI. This book has been worked out with an aim of overall development of the students in such a way that it will help students define the way how to write the answers of the Physics textbook based questions. The book covers selected NCERT Exemplar Problems which will help the students understand the type of questions and answers to be expected in the Class XI Physics Examination. Also each chapter in the book begins with a summary of the chapter which will help in effective understanding of the theme of the chapter and to make sure that the students will be able to answer all popular questions concerned to a particular chapter whether it is Long Answer Type or Short Answer Type Question. For the overall benefit of students the book has been designed in such a way that it not only gives solutions to all the exercises but also gives detailed explanations which will help the students in learning the concepts and will enhance their thinking and learning abilities. As the book has been designed strictly according to the NCERT Textbook of Physics for Class XI and contains simplified text material in the form of class room notes and answers to all the questions in lucid language, it for sure will help the Class XI students in an effective way for Physics.

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Handbook of Physics Formulae Book For IIT-JEE, NEET, KVPY, NTSE, Olympiad and all other Engineering Entrance Exams Many excellent books are available in the market & each of them represents the subject matter in a highly explanatory manner. However, the students preparing for the competitive examinations also need a comprehensive book on formulae for quick reference and revision. This hand-book of Physics Formulae, therefore, will address this need of students. This little book is an attempt to present the basic formulae in a quick reference format. A student may find this book as a handy aid for gaining rapid insight into the new formulae. Whether a student is doing exercises, homework, or preparing for the tests, this book will give them a quick easy reference to the formulae. The book contains most of the formulae from the syllabus of competitive examination, covering all the topics. Additionally, a systematic index incorporated at the beginning of the hand-book allows a user to locate the required formulae swiftly and simply. We have tried our best to keep errors out of this book. Though we shall be grateful to the readers if they point out any errors and/or make constructive suggestions. We wish to utilize the opportunity to place on record our special thanks to all members of the Content Development team for their efforts to create this wonderful book. Career Point Ltd, Kota (Rajasthan)

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The Cambridge Handbook of Physics Formulas is a quick-reference aid for students and professionals in the physical sciences and engineering. It contains more than 2000 of the most useful formulas and equations found in undergraduate physics courses, covering mathematics, dynamics and mechanics, quantum physics, thermodynamics, solid state physics, electromagnetism, optics and astrophysics. An exhaustive index allows the required formulas to be located swiftly and simply, and the unique tabular format crisply identifies all the variables involved. The Cambridge Handbook of Physics Formulas comprehensively covers the major topics explored in undergraduate physics courses. It is designed to be a compact, portable, reference book suitable for everyday work, problem solving or exam revision. All students and professionals in physics, applied mathematics, engineering and other physical sciences will want to have this essential reference book within easy reach.

Practical/Laboratory Manual Physics Class XI based on NCERT guidelines by Dr. J. P. Goel & Er. Meera Goyal JagranJosh

Volume Two of this two-volume set on the fundamental formulas of mathematical physics begins with Chapter 16 on geometrical optics. In addition to chapters on physical and electron optics, additional topics cover atomic and molecular spectra, quantum mechanics, nuclear theory, cosmic rays and high-energy phenomena, particle accelerators, solid state, magnetism, physical chemistry, astrophysics, celestial mechanics, meteorology, and biophysics. 1955 edition.

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SECTION : A EXPERIMENTS 1.To determine resistance per cm of a given wire by plotting a graph for potential difference versus current, 2.To find resistance of a given wire using meter bridge and hence determine the specific resistance (Resistivity) of its material, 3.To verify the laws of combination (Series/Parallel) of resistance using ameter bridge, 4.To compare the e.m.f. of two given primary cells using potentiometer, 5.To determine the internal resistance of a given primary cell (e.g. Leclanche cell) using potentiometer, 6.To determine the resistance of a galvanometer by half deflection method and to find its figure of merit. 7 A. To convert a given galvanometer (of known resistance and figure of merit) into an ammeter of desired range and to verify the same, 7.B.To convert a given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same. 8.To find the frequency of AC mains with a sonometer and horse-shoe magnet. SECTION : B EXPERIMENTS 1.To find the value of v for different values of u in case of a concave mirror and to find the focal length, 2.To find the focal length of a convex lens by plotting graph between u and v or $1/u$ and $1/v$. 3.To find the focal length of a convex mirror, using a

convex lens.4.To find the focal length of a concave lens, using a convex lens. 5. To determine the angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and angle of deviation, 6. To determine refractive index of a glass slab using a travelling microscope, 7.To find the refractive index of a liquid by using a convex lens and a plane mirror, 8.To draw I-V characteristics curve of a p-n junction in forward bias and reverse bias, 9.To draw the characteristics curve of a zener diode and to determine its reverse break down voltage, 10.To study the characteristics of a common-emitter n-p-n or p-n-p transistor and to find out the values of current and voltage gains. SECTION : A ACTIVITIES 1.To measure the resistance and impedance of an inductor with or without iron core, 2.To measure resistance voltage (AC/DC), current (AC) and check continuity of given circuit using multimeter, 3. To assemble a household circuit comprising of three bulbs, three (on/off)switches, a fuse and a power source. 4.To assemble the components of a given electrical circuit. 5.To study the variation in potential drop with length of a wire for a steady current, 6.To draw the diagram of a given open circuit comprising atleast a battery, resistor/rheostat, key ammeter and voltmeter. Make the components that are not connected in proper order and correct the circuit and also the circuit diagram. SECTION : B ACTIVITIES 1.To study effect of intensity of light (by varying distance of the source) on an LDR (Light Depending Resistor), 2.To identify a diode, a LED, a transistor, an IC, a resistor and a capacitor from mixed collection of such items, 3. Use a multimeter to : (i) identify the transistor, (ii) distinguish between n-p-n and p-n-p type transistor, (iii) see the unidirectional flow of current in case of a diode and a LED, (iv) Check whether a given electronic components (e.g diode, transistor or IC) is in working order, 4.To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab, 5.To observe polarisation of light using two polaroids, 6. To observe diffraction of light due to a thin slit, 7.To study the nature and size of the image formed by : (i) convex lens, (ii) concave mirror on a screen by using candle and a screen for different distance of the candle from the lens/mirror, 8.To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses. SUGGESTED INVESTIGATORY PROJECT 1.To Study Various factors on which the Internal Resistance/EMF of a cell depends, 2.To study the variations in current following in a circuit containing L.D.R. because of variation. (a) In the power of incandescent lamp used to illuminate the L.D.R. Keeping all the lamps in fixed position (b) In the Distance of a incandescent lamp (of fixed power) used to illuminate the L.D.R. 3. To find the refractive indices of (a) Water (b) Oil (Transparent) using a plane mirror, an equiconvex lens (made from a glass of known refractive index) and an adjustable object needle, 4. To design an appropriate logic gate combination for a given truth table. 5. To investigate the relation between the ratio of : (i) Output and Input voltage (ii) Number of turns in secondary coils and primary coils of a self designed transformer. 6.To Investigate the dependence of angle of deviation on the angle of incidence, using a hollow prism filled one by one with different transparent fluids, 7.To Estimate the charge induced on each one of the two identical styrofoam balls suspended in a vertical plane by making use of Coulomb's Law ; 8.To study the factors on which the self inductance of a coil depends by observing the effect of this coil, when put in series with a resistor (bulb) in a circuit fed up by an a.c. source of adjustable frequency, 9.To study the earth's magnetic field using a tangent galvanometer. APPENDIX Some Important Tables of Physical Constants Logarithmic and other Tables

Science For Ninth Class Part 1 Physics Disha Publications This title is part of UC Press's Voices Revived program, which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice, reach, and impact. Drawing on a backlist dating to 1893, Voices Revived makes high-quality, peer-reviewed scholarship accessible once again using print-on-demand technology. This title was originally published in 1934. *The Cambridge Handbook of Physics Formulas* Oswaal Books 10 in ONE CBSE Study Package Physics class 11 with 3 Sample Papers is another innovative initiative from Disha Publication. This book provides the excellent approach to Master the subject. The book has 10 key ingredients that will help you achieve success. 1. Chapter Utility Score 2. Exhaustive theory based on the syllabus of NCERT books. 3. Concept maps for the bird's eye view of the chapter 4. NCERT Solutions: NCERT Exercise Questions. 5. VSA, SA & LA Questions: Sufficient Practice Questions divided into VSA, SA & LA type. Numericals are also included wherever required. 6. HOTS/ Exemplar/ Value Based Questions: High Order Thinking Skill Based, Moral Value Based and Selective NCERT Exemplar Questions included.. 7. Chapter Test: A 24 marks test of 45 min. to assess your preparation in each chapter. 8. Important Formulas, terms and definitions 9. Full syllabus Sample Papers - 3 papers with detailed solutions designed exactly on the latest pattern of CBSE. 10.Complete Detailed Solutions of all the exercises

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