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Practical/Laboratory Manual Physics Class XI based on NCERT guidelines by Dr. J. P. Goel & Er. Meera Goyal-Dr. J. P. Goel 2020-06-26 EXPERIMENTS 1.Measurement of Length 1.To measure the diameter of a small spherical/cylindrical body by using a vernier callipers, 2. To measure the dimensions of a given regular body of known mass, using vernier callipers and hence find its density, 3. To measure the internal diameter and depth of a given cylindrical vessel (say calorimeter/beaker) by using vernier callipers and hence find its internal volume (i.e., capacity) Viva-voce 2. Screw Gauge/Micrometer 4.To determine the diameter of a given wire using a screw gauge and find its volume, 5. To find the thickness of a given sheet with the help of screw gauge, 6.To measure the volume of an irregular lamina by using a screw gauge Viva-voce 3. Spherometer 7.To measure the radius of curvature of a given spherical surface (convex lens) by using a spherometer Viva-voce 4.Mass and Weight 8.To determine the mass of two different objects using a beam balance Viva-voce 5.Parallelogram Law of Vectors 9.To find the weight of a given body using parallelogram law of vectors Viva-voce 6.Simple Pendulum (Measurement of Time) 10.Using a simple pendulum, plot L–T and L–T2 graphs. Hence find the effective length of a second's pendulum, using appropriate graphs Viva-voce 7. Friction 11.To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizontal surface, Viva-voce 8. Motion of a Body Along an Inclined Plane 12. To find the downward force along an inclined plane, acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination by plotting graph between force and sin Viva-voce SECTION : B EXPERIMENTS 1.Elasticity 1.To determine the Young's modulus of elasticity of the material of the wire, using Searle's apparatus Viva-voce 2.Spring Constant 2.To find the spring constant of a helical spring by plotting load-extension graph Viva-voce 3. Boyle's Gas Law 3.To study the variation in volume with pressure for a sample of air constant temperature by plotting graphs between P and V and between P and 1/V 18 Viva-voce 4. Surface Tension 4.To determine the surface tension of water by capillary rise method Viva-voce 5.Viscosity 5.To determine the co-effective of viscosity of given liquid by measuring the terminal velocity of a given spherical body in it Viva-voce 6.Newton's Law of Cooling 6.To study the relationship between temperature of a hot body and time by plotting a cooling curv Viva-voce 7.Vibrations of Strings 7. To study the relation between frequency and length for a given wire under constant tension using a sonometer Viva-voce 8.To study the relation between the length of a given wire and tension for constant frequency using sonometer Viva-voce 8.Vibrations of Air Columns 9.To find the velocity of sound in air at room temperature using a resonance tube by two resonance position Viva-voce 9.Specific Heat 10.To determine specific heat of a given solid by the method of mixture 11.To determine the specific heat of a given liquid by method of mixture Viva-voce SECTION : A ACTIVITIES 1.To make a paper scale of given least count e.g., 0.2 cm, 0.5 cm and use it to measure the length of a given object. 2.To determine the mass of a given body using a metre scale and by applying principle of moments. Viva-voce 3.To plot a graph for a given set of data using proper choice of scales and error bars. Viva-voce 4.To measure the force of limiting friction for rolling of a roller on horizontal plane. Viva-voce 5.To study the variation in the range of a jet of water with angle of projection. Viva-voce 6.To study the conservation of energy of a ball rolling down on inclined plane (using a double inclined plane). Viva-voce 7. To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time. Viva-voce SECTION : B ACTIVITIES 1.To observe the change of the state and plot a cooling curve for molten wax. Viva-voce 2.To observe and explain the effect of heating on a bimetallic strip. Viva-voce 3.To note the change in level of liquid in a container on heating and interprect the observations. Viva-voce 4.To study the effect of detergent in surface tension by observing capillary rise. Viva-voce 5.To study the factors affecting the rate of loss of heat of a liquid. Viva-voce 6.To study the effect of load on depression of a suitably clamped meter scale loaded (i) at itsend (ii) in the middle. Viva-voce 7.To observe the decrease in pressure with the increase in velocity of the fluid. Viva-voce APPENDIX Some Important Tables of Physical Constants Log-Antilog and other Tables

Oswaal CBSE Laboratory Manual Class 11 Physics Book (For 2021 Exam)-Oswaal Editorial Board 2021-01-15 "• It is strictly according to the latest CBSE guidelines

• It contains all NCERT Lab Manual Questions, fully solved

• It contains more than sufficient viva voce questions for practice

• It also includes brief description of each activity/experiment, which will help students in practicing and completing their lab work. "

Practical/Laboratory Manual Physics Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal-Dr. J. P. Goel 2020-06-24 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 specifi 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 function 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 Verious 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 incomdescent lamp used to illum inate the L.D.R. Keeping all the lamps in fixed position (b) In the Distance of a in condescent lamp (of fixed power) used to illum inate the L.D.R. 3. To find the refractive indeces 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 turms 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 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 coulomob'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

Lakhmir Singh's Science for Class 8-Lakhmir Singh & Manjit Kaur Lakhmir Singh's Science is a series of books which conforms to the NCERT syllabus. The main aim of writing this series is to help students understand difficult scientific concepts in a simple manner in easy language. The ebook version does not contain CD.

Practical/Laboratory Manual Biology Class XI based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal-Dr. Sunita Bhagia 2020-06-23 An Excellent Book in Accordance with the latest syllabus for Class-11 Prescribed by CBSE/NCERT and Adopted by Various State Education Boards Introduction : (1. Necessary equipments, chemicals and other things for practical work, 2. General Instructions for practical work, 3. Special Instructions for practical note-book, Drawing and Recording, 4. Special Instructions for spotting.) EXPERIMENTS 1. To study and describe the flowering plant belonging to family (one from each of the families) (a) Solanaceae(b)Fabaceae(c)Liliaceae. 2.To prepare temporary slide of transverse section of dicot/monocot stem/dicot/ monocot root. 3. To study osmosis by potato-osmometer. 4. To study of plasmolysis in epidermal peel of Tradescantial or Rhoeo leaf. 5. To study the distribution of stomata on the upper and lower surface of a leaf. 6.To compare the rate of transpiration in upper and lower surface of the leaf. 7. To test the presence of sugars (Glucose, Sucrose and Starch), proteins and fats and to detect their presence in suitable plant and animal materials. 8. To study the separation of plant pigments by paper chromatography. 9. To study the rate of respiration in flower buds/leaf tissue and germinating seeds. 10A.To test presence of urea in urine. 10B. To test presence of sugar in urine. 10C. To detect presence of albumin in urine. 10D.To test urine for presence of bile salt. SPOTTING 1. Study of compound microscope. 2. To study the plant specimen and identification with reasons : Bacteria, Oscillatoria, Spirogyra, Rhizopus, Mushroom, Yeast, Liverwort, Moss, Fern, Pine, One Monocotyledonous plant, One dicotyledonous plant and one Lichen. 3. Study of animal specimens 1. Amoeba 2. Hydra 3.Fasciola Hepatica (Liver fluke) 4. Ascaris Lumbricoides 5. Hirudinaria Granulosa 6. Pheretima Posthuma 7. Palaemon 8. Bombyx Mori 9. Apis Indica (Honeybee)10. Pila Globasa (Snail) 11. Asterias (Starfish) 12. Scoliodon (Dogfish/Shark) 13.Labeo Rohita (Rohu) 14. Rana Tigrina (Frog) 15. Hemidactylus (Lizard) 16. Columba Livia (Pigeon) 17. Orytolagus Cuniculus(Rabbit). 4A.To study the plant tissues—Palisade cells, Guard cells, Parenchyma, Collenchyma, Sclerenchyma, Xylem and Phloem through prepared slide. 4B.To study the animal tissue squamous epithelium, muscles fibres through prepared slide. 4C. To study mammalian blood smear by temporary/permanent slide. 5. Study of mitosis in root tip of onion. 6. Study of different modification in root, stem and leaves. 7. To study and identify different types of inflorescence (Racemose and Cymose). 8. To study imbition in seed/raisins. 9. To demonstrate that anaerobic respiration take place in the absence of air. 10. To study human skeleton and joints. 11. To study the external features of cockroach with help of model or chart

Practical/Laboratory Manual Chemistry Class XI based on NCERT guidelines by Dr. S. C. Rastogi & Er. Meera Goyal-Dr. S. C. Rastogi 2020-06-23 An Excellent Book in Accordance with the latest syllabus for Class-11 Prescribed by CBSE/NCERT and Adopted by Various State Education Boards. (A) Basic Laboratory Techniques – 1. To cut a glass tube or glass rod, 2. To bend the glass rod at an angle, 3. To draw a glass jet from a glass tube, 4. To bore a cork and fit a glass tube into it. (B) Characterisation and Purification of Chemical Substances- 1. To determine the melting point of the given unknown organic compound and its identification (simple laboratory technique), 2. To determine the boiling point of a given liquid when available in small quantity (simple laboratory method), 3. To prepare crystals of pure potash alum [K2SO4.Al2(SO4)3.24H2O] from the given impure sample, 4. To prepare the pure crystals of copper sulphate from the given crude sample, 5. To prepare pure crystals of benzoic acid from a given impure sample. (C) Measurement of pH Values 1. To determine the pH value of vegetable juices, fruit juices, tap water and washing soda by using universal pH paper, 2. To determine and compare the pH values of solutions of strong acid (HCI) and weak acid (CH3COOH) of same concentration, 3. To study the pH change in the titration of strong base Vs. strong acid by using universal indicator paper, 4. To study the pH change by common ion (CH3COO– ion) in case of weak acid (CH3COOH), 5. To determine the change in pH value of weak base (NH4OH) in presence of a common ion (NH4+), (D) Chemical Equilibrium 1. To study the shift in equilibrium between ferric ions and thiocyanate ions by changing the concentrations of either of the ions, 2. To study the shift in equilibrium between [Co(H2O)6]2+ and Cl– ions by changing the concentrations of either of the ions, (E) Quantitative Analysis 1. To prepare M/10 oxalic acid solution by direct weighing method, 2.To prepare M/10 solution of sodium carbonate by direct weighing method, 3.To determine the strength of given solution of sodium hydroxide by titrating it against N/10 or M/20 solution of oxalic acid, 4.To determine the strength of a given solution of hydrochloric acid by titrating it against a standard N/10 or M/20 sodium carbonate solution, (F) Qualitative Analysis 1. Analysis of Anions, 2. Analysis of Cations (G) Detection of Elements in Organic Compounds 1.To detect the presence of nitrogen, sulphur and halogens in a given organic compound by Lassaigne's test, 2. To detect the presence of nitrogen, sulphur and halogens in the given organic compound sample number ..... by Lassaigne's test INVESTIGATORY PROJECTS (A) Checking of Bacterial Contamination in Water 1.To check the bacterial contamination in drinking water by testing sulphide ions (B) Methods of Water Purification 1.To purify water from suspended impurities by using sedimentation, 2. To purify water by boiling, 3.To purify water by distillation method, 4.To purify water by reverse osmosis technique. 5.To purify water by GAC method, 6.To purify water by bleach treatment, 7.To purify water by oxidising agent, 8.To purify water by ozone treatment method. (C) Water Analysis 1. To test the hardness of different water samples. (D) Foaming Capacity of Various Soaps 1.To compare the foaming capacity of different washing soaps, 2.To study the effect of addition of sodium carbonate on foaming capacity of washing soap (E) Tea Analysis 1. To study the acidity of different samples of tea leaves (tea) by using pH paper (F) Analysis of Fruits and Vegetable Juices 1. To analyse the fruit and vegetable juices for the constituent present in them (G) Rate of Evaporation 1. To study the rate of evaporation of different liquids (H) Effect of Acids and Bases on Tensile Strength of Fibres 1.To compare the tensile strength of natural fibres and synthetic fibres, 2.To study the effect of acids and bases on tensile strength of different fibres. Log & Antilog Table

Vedic Mathematics-Swami Bharati Krishna Tirtha 1992 This epoch-making and monumental work on Vedic Mathematics unfolds a new method of approach. It relates to the truth of numbers and magnitudes equally applicable to all sciences and arts.

Physics Lab Manual-Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar Lab Manual

The Children's Story-James Clavell 2014-11-12 It was a simple incident in the life of James Clavell—a talk with his young daughter just home from school—that inspired this chilling tale of what could happen in twenty-five quietly devastating minutes. He writes, "The Children's Story came into being that day. It was then that I really realized how vulnerable my child's mind was —any mind, for that matter—under controlled circumstances. Normally I write and rewrite and re-rewrite, but this story came quickly—almost by itself. Barely three words were changed. It pleases me greatly because I kept asking the questions... Questions like, What's the use of 'I pledge allegiance' without understanding? Like Why is it so easy to divert thoughts? Like What is freedom? and Why is so hard to explain? The Children's Story keeps asking me all sorts of questions I cannot answer. Perhaps you can—then your child will...."

Physics : Textbook For Class Xi- 2007-01-01

Lab Manual-Physics-TB-12_E-R-Dr R K Gupta Lab Manual-Physics-TB-12_E-R

Comprehensive Biology XII-

Comprehensive Practical Chemistry XI-Dr. N. K. Verma 2010-02

Comprehensive Lab Manual Science VIII-Dr. N.K. Sharma 2011-12-01

Comprehensive Physics XI-

Comprehensive Practical Physics XII-J. N. Jaiswal 2011-12-01

Comprehensive Practical Chemistry XII-Dr. N . K. Verma 2011-11-01

Comprehensive Chemistry-Dr. N. K. Verma 2011-07-01

Comprehensive Mathematics Activities and Projects IX-J. B. Dixit 2010-02-01

History of Indian Art-Kajal Kanjilal History Book

Themes in World History-Indien National Council of Educational Research and Training 2006

Practical/Laboratory Manual Science Class X based on NCERT guidelines by Dr. J. P. Goel, Dr. S. C. Rastogi, Dr. Sunita Bhagia & Er. Meera Goyal-Dr. J. P. Goel 2020-06-26 Physics : 1.To determine the focal length of concave mirror, 2. To find the focal length of convex lens by two pin method, 3. To find the image distance for varying object distances in case of a convex lens and drawing corresponding ray diagrams to show the nature of image formed, 4.To trace the path of the rays of light through a glass prism, 5.To trace the path of a ray of light passing through a rectangular glass slab for difference angles of incidence. 6.To study the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I.7.To determine the equivalent resistance of two resistors when connected in series and parallel Chemistry : 8.To find the pH of the following samples by using pH paper universal indicator, 9.To studying the properties of a base (dil. NaOH Solution) and Acid (HCl) by their reaction with : (a) Litmus

solution (Blue/Red), (b) Zinc metal, (c) Solid sodium carbonate, 10.To perform and observe the following reactions and to classify them into (a) Combination reaction, (b) Decomposition reaction, (c) Displacement reaction, (d) Double displacement reaction : (i) Action of water on quick lime, (ii) Action of heat on ferrous sulphate crystals, (iii) Iron nails kept in copper sulphate solution, (iv) Reaction between sodium sulphate and barium chloride solutions.11.To observe the action of Zn, Fe, Cu and Al on the following salt solutions : (a) ZnSO4 (aq.), (b) FeSO4 (aq.), (c) CuSO4 (aq.), (d) Al2 (SO4)3 (aq.). Based on the above result to arrange Zn, Fe, Cu and Al (metals) in the decreasing order or reactivity,12.To study the following properties of acetic acid (ethanoic acid) : (i) Odour, (ii) Solubility in water, (iii) Effect on litmus, (iv) Reaction with sodium hydrogen carbonate. 13.To study the comparative cleaning capacity of a sample of soap in soft and hard water. Biology : 14.To study stomata by preparing a temporary mount of a leaf peel. 15. To show experimentally that carbon dioxide (CO2) is given out during aerobic respiration, 16. To study (A) Binary fission in Amoeba and (B) Budding in yeast with the help of prepared slides, 17.To identify the different parts of an embryo of a dicot seed (pea, gram or red kidney beans.)

Oswaal ISC Question Bank Chapterwise & Topicwise Solved Papers, Class 12, Computer Science (For 2021 Exam)-Oswaal Editorial Board 2020-04-24 FROM THE PUBLISHER: It is very rightly said that if we teach today as we taught yesterday, then we rob our children of tomorrow. With this vision, CISCE has yet again updated and released its curriculum for the upcoming Academic Year. With all the refreshing changes and updates, the way ahead looks exciting for students and teachers alike! We at Oswaal Books, are also extremely upbeat about the recent changes. We have made every possible effort to incorporate all these changes in our books for the coming Academic Year. Questions incorporated in this book follow the latest syllabus, pattern and marking guidelines of the Council to guide the candidates to answer with precision. This will help students to get familiar with the examination techniques. These Question banks are available for all important subjects like Maths, English Paper 1 & 2, Hindi, Physics, Chemistry, Biology, History, Computer Science & Economics. We at Oswaal Books never try to teach our readers. We on the other hand, provide them the conditions in which they can learn and train their mind to think! After all Education is what remains after one has forgotten what one learned in school. IMPORTANT FEATURES OF THE BOOK: Self-Study Mode ISC Chapter wise/Topic wise 10 years' Solved papers ISC Previous 10 years' Examination Questions to facilitate better understanding Exam Preparatory Material Latest Solved paper with Handwritten Topper's Answers Answers from ISC Marking Scheme -2018 with detailed explanations as per the word limit for perfection in answering final exam questions Board Examiner comments and answering tips for clearer thinking. Suggestions for Students to score full marks in Exams Topics and concepts found difficult by students All-in -one Chapter wise & Topic wise introduction to enable quick revision Mind Maps for improved learning WHAT THIS BOOK HAS FOR YOU: Latest CISCE Curriculum Strictly based on the latest CISCE curriculum and examination specifications for Academic Year 2020-2021, for class 12 Latest Typology OF Questions Latest typology of questions are included as per the latest design of the question paper issued by CISCE Hybrid Learning Suggested videos for digital learning About Oswaal Books: We feel extremely happy to announce that Oswaal Books has been awarded as 'The Most Promising Brand 2019' by The Economic Times. This has been possible only because of your trust and love for us. Oswaal Books strongly believes in Making Learning Simple. To ensure student-friendly, yet highly exam-oriented content, we take due care in developing our Panel of Experts. Accomplished teachers with 100+ years of combined experience, Subject Matter Experts with unmatchable subject knowledge, dynamic educationists, professionals with a keen interest in education and topper students from the length and breadth of the country, together form the coveted Oswaal Panel of Experts. It is with their expertise, guidance and a keen eye for details that the content in each offering meets the need of the students. No wonder, Oswaal Books holds an enviable place in every student's heart!

Comprehensive Lab Manual Science VII-Dr. N. K. Sharma 2011-11-01

Comprehensive Practical Physics XI-J. N. Jaiswal 2012-08-01

Hard Bound Lab Manual Science-Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar Lab Manuals

Practical Manual of Fisheries-K. P. Biswas 2018 The book, "Practical Manual of Fisheries" is contemplated to fulfil the long standing needs to guide the fisheries work in field studies. The book starts with the standard statistical methods required to conduct fish culture experiments for testing a hypothesis and for presentation and interpretation of data. As a pre-requisite, evaluation and assessment of aquatic communities in a body of water, whether for experiment or for commercial fish culture is described in details, both for plant and animal communities, group wise as to the sample collection, preservation and quantitative and qualitative assessment. The fish, the ultimate end product is dealt in a separate chapter, highlighting the assessment of population, their behavior, method of collection and the bioassay techniques together with it application. The basic knowledge of fish anatomy and other physiological systems and their inventory is narrated in a chapter with the exception of fish embryology and reproduction of fish. Reproduction of different groups of fish and commercial fish breeding, methods of cultivation for optimum production is dealt in details. The knowledge on food and feeding habits of fish, various methods of analysis of their gut contents, determination of age and growth rate by examining scale and hard parts is given special emphasis in this regard. Investigations on the pollution of water bodies, the cause of fish diseases, their symptoms and prevention and control is discussed. The field study of fish population census, biological investigations of water bodies with regard to evaluation of their fish productive capacities, impoundment surveys and the creation of new fishing waters are described in details. Chemical water analysis essential for fish production together with the significance of each parameter is also mentioned in the book as a ready reconer. Special importance on the methodology on brackish water shrimp farming is given in the last chapter of the book. The manual will be useful to students, researchers and teachers in field studies.

Health and Physical Education Class 12-Dr. V.K. Sharma Saraswati Health and Physical Education is a much acclaimed and popular series in Health and Physical Education. The series demonstrates a deep understanding of the principles and concepts related to the subject while providing students with all the pedagogical tools necessary for comprehension and application. The fully revised edition, which includes all the latest developments in the field, in its colourful avatar will not only enhance the teaching-learning process but will also make it more enjoyable.

Oswaal CBSE Question Bank Class 10, Science (For 2021 Exam)-Oswaal Editorial Board 2020-04-29 FROM THE PUBLISHER: It is very rightly said that if we teach today as we taught yesterday, then we rob our children of tomorrow. We at Oswaal Books, are extremely upbeat about the recent changes introduced by CBSE in its latest curriculum for 2020-2021. We have made every possible effort to incorporate all these changes in our QUESTION BANKS for the coming Academic Year. Updated & Revised Oswaal Question Banks are available for all the important subjects like ENGLISH, MATHS, SCIENCE, HINDI, SOCIAL SCIENCE (SST), COMPUTER APPLICATIONS & SANSKRIT Some of the key benefits of studying from Oswaal Question Banks are: • Chapter-wise/ Topic-wise presentation for systematic and methodical study • Strictly based on the latest CBSE Curriculum issued for Academic Year 2020-2021, following the latest NCERT Textbook and Exemplar • Previous Years' Question Papers with Marking Scheme & Toppers' Answers for exam-oriented study • Remembering, Understanding, Application, Analysing & Evaluation and Creation Based Question based on Bloom's Taxonomy for cognitive skills development • Latest Typologies of Questions developed by Oswaal Editorial Board included • Mind Maps in each chapter for making learning simple • 'Most likely Questions' generated by Oswaal Editorial Board with 100+ years of teaching experience • Suggested videos at the end of each chapter for a Hybrid Learning Experience IMPORTANT FEATURES OF THE BOOK: Self-Study Mode • Chapter wise/Topic wise Previous Years' Board Examination Questions to facilitate focused study • Latest Board solved paper along with Marking Scheme and Handwritten Topper's Answers for practice Exam Preparatory Material • Answers of CBSE Marking Scheme up to March 2019 Exam with detailed explanations to score full marks in exams • Answering Tips & Commonly Made Errors for clearer thinking All-In-One • Revision notes, Mind Maps & Grammar charts facilitate quick revision of chapters • NCERT & Oswaal 150+ concept videos for digital learning WHAT THIS BOOK HAS FOR YOU: Latest CBSE Curriculum Strictly based on the latest CBSE curriculum issued for Academic Year 2020-2021, following the latest NCERT Textbook. Latest Typology of Questions Latest Typologies of Questions like Multiple Choice Questions,Tabular based Questions, Passage based Questions, Picture based Questions, Fill in the Blanks, Match the Following, etc. have been exclusively developed by the Oswaal Editorial Board and included in our Question Banks. Most Likely Questions 'Most likely questions' generated by our editorial Board with 100+ years of teaching experience. About Oswaal Books: We feel extremely happy to announce that Oswaal Books has been awarded as 'The Most Promising Brand 2019' by The Economic Times. This has been possible only because of your trust and love for us. Oswaal Books strongly believes in Making Learning Simple. To ensure student-friendly, yet highly exam-oriented content, we take due care in developing our Panel of Experts. Accomplished teachers with 100+ years of combined experience, Subject Matter Experts with unmatchable subject knowledge, dynamic educationists, professionals with a keen interest in education and topper students from the length and breadth of the country, together form the coveted Oswaal Panel of Experts. It is with their expertise, guidance and a keen eye for details that the content in each offering meets the need of the students. No wonder, Oswaal Books holds an enviable place in every student's heart!

CIE News Letter- 1967

Hard Bound Lab Manual Health and Physical Education-Dr V K Sharma Lab Manuals

Concepts Of Physics-Harish Chandra Verma 1999

Lab Manual Latest Edition-Dr. J. P. Goel 2016-12-17 Lab. E- Manual Physics (For XIIth Practicals) A. Every student will perform 10 experiments (5 from each section) & 8 activities (4 from each section) during the academic year. Two demonstration experiments must be performed by the teacher with participation of students. The students will maintain a record of these demonstration experiments. B. Evaluation Scheme for Practical Examination : One experiment from any

one section 8 Marks Two activities (one from each section) (4 + 4) 8 Marks Practical record (experiments & activities) 6 Marks Record of demonstration experiments & Viva based on these experiments 3 Marks Viva on experiments & activities 5 Marks Total 30 Marks Section A Experiments 1. To determine resistance per cm of a given wire by plotting a graph of potential difference versus current. 2. To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material. 3. To verify the laws of combination (series/parallel) of resistances using a metre bridge. 4. To compare the emf of two given primary cells using potentiometer. 5. To determine the internal resistance of given primary cells using potentiometer. 6. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit. 7. To convert the given galvanometer (of known resistance and figure of merit) into an ammeter and voltmeter of desired range and to verify the same. 8. To find the frequency of the a.c. mains with a sonometer. 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 a given circuit using multimeter. 3. To assemble a household circuit comprising 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 at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram. 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 graphs between u and v or between 1/u and 1/u. 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 angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation. 6. To determine refractive index of a glass slab using a travelling microscope. 7. To find refractive index of a liquid by using (i) concave mirror, (ii) convex lens and plane mirror. 8. To draw the I-V characteristic curve of a p-n junction in forward bias and reverse bias. 9. To draw the characteristic curve of a zener diode and to determine its reverse break down voltage. 10. To study the characteristics of a common-emitter npn or pnp transistor and to find out the values of current and voltage gains. Activitie 1. To study effect of intensity of light (by varying distance of the source) on a L.D.R. 2. To identify a diode, a LED, a transistor and IC, a resistor and a capacitor from mixed collection of such items. 3. Use of multimeter to (i) identify base of transistor. (ii) distinguish between npn and pnp type transistors. (iii) see the unidirectional flow of current in case of a diode and a LED. (iv) check whether a given electronic component (e.g. diode, transistor or I C) 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 polarization of liquid 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 a candle and a screen (for different distances 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 Projects 1. To investigate whether the energy of a simple pendulum is conserved. 2. To determine the radius of gyration about the centre of mass of a metre scale as a bar pendulum. 3. To investigate changes in the velocity of a body under the action of a constant force and determine its acceleration. 4. To compare effectiveness of different materials as insulators of heat. 5. To determine the wavelengths of laser beam by diffraction. 6. To study various factors on which the internal resistance/emf of a cell depends. 7. To construct a time-switch and study dependence of its time constant on various factors. 8. To study infrared radiations emitted by different sources using photo-transistor. 9. To compare effectiveness of different materials as absorbers of sound. 10. To design an automatic traffic signal system using suitable combination of logic gates. 11. To study luminosity of various electric lamps of different powers and make. 12. To compare the Young’s modulus of elasticity of different specimens of rubber and also draw their elastic hysteresis curve. 13. To study collision of two balls in two dimensions. 14. To study frequency response of : (i) a resistor, an inductor and a capacitor, (ii) RL circuit, (iii) RC circuit, (iv) LCR series circuit.
Comprehensive Mathematics Activities and Projects X-J. B. Dixit 2010-02-01
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