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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.) **Practical/Laboratory Manual Science Class IX based on NCERT guidelines by Dr. J. P. Goel, Dr. S. C. Rastogi, Dr. Sunita Bhagia & Er. Meera Goyal SBPD Publications** SBPD Publications 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. 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Follows the Latest NEP 2020 Guidelines One for All has moved away from solely rote learning of facts towards more imaginative and flexible learning structures Latest Typologies of Questions as per CBSE Latest Typologies like; MCQs, Tubulars', Passages, Picture based questions, Fill in the blanks, Match the following, etc. have been included in each chapter **Complete Science Laboratory Manual CBSE For Class 10 Oswaal CBSE Question Bank Class 9 English Language & Literature (Reduced Syllabus) (For 2021 Exam)** Oswaal Books and Learning Pvt Ltd ". Chapter-wise/ Topic-wise presentation for systematic and methodical study • Strictly based on the Reduced 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" **Science Lab Manual Class IX | As per the latest CBSE syllabus and other State Board following the curriculum of CBSE.** EduGorilla With the NEP 2020 and expansion of research and knowledge has changed the face of education to a great extent. In the Modern times, education is not just constricted top the lecture method but also includes a practical knowledge of certain subjects. This way of education helps a student to grasp the basic concepts and principles. Thus, trying to break the stereotype that subjects like Mathematics, and Science means studying lengthy formulas, complex structures, and handling complicated instruments, we are trying to make education easy, fun, and enjoyable. **Science Lab Manual Class X | follows the latest CBSE syllabus and other State Board following the CBSE Curriculum.** EduGorilla Community Pvt. Ltd. With the NEP 2020 and expansion of research and knowledge has changed the face of education to a great extent. In the Modern times, education is not just constricted top the lecture method but also includes a practical knowledge of certain subjects. This way of education helps a student to grasp the basic concepts and principles. Thus, trying to break the stereotype that subjects like Mathematics, and Science means studying lengthy formulas, complex structures, and handling complicated instruments, we are trying to make education easy, fun, and enjoyable. **Oswaal NCERT Exemplar Problem-Solutions, Class 12 (3 Book Sets) Physics, Chemistry, Mathematics (For Exam 2022)** Oswaal Books and Learning Private Limited Chapter wise & Topic wise presentation for ease of learning Quick Review for in depth study Mind maps for clarity of concepts All MCQs with explanation against the correct option Some important questions developed by 'Oswaal Panel' of experts Previous Year's Questions Fully Solved Complete Latest NCERT Textbook & Intext Questions Fully Solved Quick Response (QR Codes) for Quick Revision on your Mobile Phones / Tablets Expert Advice how to score more suggestion and ideas shared **Lab Manual Science Class 10** New Saraswati House India Pvt Ltd These Lab Manuals provide complete information on all the experiments listed in the latest CBSE syllabus. The various objectives, materials required, procedures, inferences, etc., have been given in a step-by-step manner. Carefully framed MCQs and short answers type questions given at the end of the experiments help the students prepare for viva voce. **Oswaal CBSE Sample Question Paper Class 10 (Set of 5 Books) Hindi A, English Language and Literature, Science, Social Science & Mathematics Standard (For Term I Nov-Dec 2021 Exam)** Oswaal Books and Learning Private Limited Strictly as per the Term wise syllabus & Sample Question Paper released on 2nd Sept.,2021 Exam-Targeted,5 solved & 5 Self-Assessment Papers All Types of MCQs-Assertion-reason & Case-based Answers with Explanations & OMR Sheets after each Sample Question Paper Academically important (AI) Questions for Board Exam Learn more with 'Mind Maps' 'On-Tips Notes' for Quick Revision For detailed study, scan the QR code **Academic Practical Science X** Laxmi Publications **Core Science Lab Manual with Practical Skills for Class X** Goyal Brothers Prakashan Goyal Brothers Prakashan **Oswaal CBSE Question Bank Class 12 Political Science Chapterwise & Topicwise (For March 2020 Exam)** Oswaal Books "The latest updation of CBSE curriculum happened on 29th March 2020 applicable for the Academic Year 2020-2020 with some major changes which will have a bearing on the Question Paper Design for the final Board Examination in 2020 Oswaal Solved Papers are thoroughly updated as per the latest guidelines of the CBSE Board thereby strictly following the latest syllabus and pattern of the Board. These are designed as per the latest board examination paper design released by CBSE and emphasize on nurturing individuality thus enhancing one's innate potentials which help in increasing the self-study mode for students. Features like Chapterwise and Topicwise presentation strengthen knowledge and attitude related to the subject. These Question Banks have been designed in such a way that students can set their own goals and can improve their problem solving and thinking skills. These Question banks contain more than sufficient questions which help students in practicing and completing the syllabus. Quick Review in the beginning of each chapter is an added advantage of using this book. Questions incorporated in this book encompass all the 'Typologies' mentioned by CBSE namely Remembering, Understanding, Application, Analysis& Evaluation and Creation. Solutions for these have been checked twice and efforts have been made to align them closely to the Marking Scheme. Practically, this book provides students everything they need to learn and excel. Some of the Benefits studying term of Oswaal Solved Papers are : I Strictly based on the latest CBSE Curriculum issued on 29th March 2020 for Academic Year 2020-2020, following the latest NCERT Textbook I Previous Years' Board Questions for in depth study I Handwritten Toppers' Answers I Answers strictly as per the CBSE Marking Scheme I All Typology of Questions included based on Bloom's Taxonomy for cognitive skills development I Multiple Choice Questions included as per the latest design of the Question Paper issued by CBSE I Quick Review for comprehensive study I Mind Maps in each chapter for remembering facts & figures easily I 'Most likely Questions' generated by our Editorial Board with 100+ years of teaching experience. I Suggested videos at the end of each chapter for a Digital Learning Experience. **Oswaal NCERT Problems - Solutions (Textbook + Exemplar) Class 10 Science Book (For 2022 Exam)** Oswaal Books and Learning Private Limited Some Special Features of Oswaal NCERT Solutions are: • Chapter-wise & Topic-wise presentation • Chapter Objectives-A sneak peek into the chapter • Mind Map: A single page snapshot of the entire chapter • Quick Review: Concept-based study material • Tips & Tricks: Useful guidelines for attempting each question perfectly • Some Commonly Made Errors: Most common and unidentified errors made by students discussed • Expert Advice - Oswaal Expert Advice on how to score more! • Oswaal QR Codes- For Quick Revision on your Mobile Phones & Tablets • All MCQs with explanation against the correct option • Some important questions developed by 'Oswaal Panel' of experts **Practical/Laboratory Manual Chemistry Class XI based on NCERT guidelines by Dr. S. C. Rastogi & Er. Meera Goyal SBPD Publications** SBPD Publications 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 (HCl) 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 Chapterwise Objective MCQs Science (PCM) Book for CBSE Class 12 Term I Exam** Oswal Publishers Score and Prepare well for your 12th Class Board Examination with Gurukul's newly introduced CBSE Chapterwise Objective MCQs Science Stream(PCM) Book for Term I Exam.This practice book Includes subject papers such as Physics, Chemistry, Maths, English, and Physical Education. How can you benefit from Gurukul CBSE Chapterwise PCM Objective MCQs for 12th Class? Our Comprehensive Handbook Includes questions segregated chapter wise which enable Class 12 CBSE students' to concentrate properly on one chapter at a time.It is strictly based on the latest circular no. Acad 51, 53 and 55 of July, 2021 issued by the board for the Term I & II Examination for in-depth preparation. 1. Study material strictly based on the Reduced Syllabus issued by the Board in July, 2021 for Term I Exam 2. Focused on New Objective Paper Pattern Questions 3. Multiple Choice Questions (MCQs) based on the board's most recent typologies of the objective type questions: a. Stand-Alone MCQs b. Assertion-Reason based questions c. MCQs with a case study 4. Questions included from the official CBSE Question Bank, issued in April 2021 5. NCERT & NCERT Exemplar questions provided 6. 2000+ New Chapter-wise Questions included for practice 7. Detailed Explanations given for better understanding 8. Recent Years board objective questions **Oswaal CBSE Question Bank Class 10 Hindi A (Reduced Syllabus) (For 2021 Exam)** Oswaal Books and Learning Pvt Ltd ". Chapter-wise/ Topic-wise presentation for systematic and methodical study • Strictly based on the Reduced 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"