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Chemistry book for class 11 free

Chemistry – the science that studies structure, composition, and properties of matter. If you really give your heart to Chemistry, you might find it to be truly magical. The NCERT Class 11 Chemistry book keeps up with this magic by giving you a detailed and interesting perspective of the various topics of Chemistry. However, tackling the syllabus will not be a cakewalk. While the NCERT books may appear interesting, you will need a proper plan to tackle the huge syllabus. With Aakash Digital, you can learn at home with LIVE ONLINE CLASSES – ATTEND FREE LIVE ONLINE CLASS by experienced Aakash Faculty. Class 11 Chemistry NCERT Book PDF Download Download Pdf The best way to go about it is to check out the summaries of the chapters of Chemistry and formulate an effective strategy on how you will complete the syllabus this year. Here are the summaries of the chapters of the NCERT Class 11 Chemistry book to help you with your plan: Chapter 1: Some Basic Concepts of Chemistry The first chapter in the NCERT Class 11 Chemistry book takes students on a journey to make them understand the roles that Chemistry plays in different spheres of our life. It makes students revise, in detail, Dalton's atomic theory, what atoms and molecules are, the mole concept, molecular masses, molecular formula, empirical formula, etc. You might also have to solve problems using stoichiometry. Chapter 2: Structure of Atom Chapter 2 will dive into the history of the discovery of Proton, Electron and Neutron as well as talk about atomic number, isobars, isotopes, etc. It will go into details of Thomson's model, Rutherford's model, Bohr's model and their different limitations. This chapter will also introduce concepts of shells, subshells, the dual nature of matter and light, Heisenberg uncertainty principle, Hund's rule, etc. Chapter 3: Classification of Elements and Periodicity in Properties This chapter will teach you the importance of classification and give you an insight into the development of the periodic table and how the modern periodic table in the present form came about. The nomenclature of elements along with the periodic trends in the properties of elements like ionic radii, electron gain enthalpy, atomic radii, etc. are tackled in this chapter too. Chapter 4: Chemical Bonding and Molecular Structure In this chapter, you will come across the concept of valence electrons, covalent and ionic bonds, and will also get introduced to bond parameters, Lewis structure, valence bond theory, etc. This chapter will also engage you with the qualitative idea of the VSEPR theory, the hybridization concept, shapes of simple molecules and many other concepts. Chapter 5: States of Matter – Gases and Liquids Chapter 5 of the NCERT Class 11 Chemistry book will dive into the basic concept of the three states of matter, intermolecular interactions and bonding type. You will also come across different laws like Boyle's Law, Charles Law, Gay Lussac's Law, etc., to help you understand the concept of the molecule. Chapter 6: Chemical Thermodynamics In Chapter 6, you will be introduced to the concepts of system and the different types of system. In this chapter, you will understand the application of the laws of thermodynamics and learn about other laws like Hess' Law of constant heat summation, Gibb's energy change for spontaneous and non-spontaneous processes, criteria for equilibrium, and many more. Chapter 7: Equilibrium What is equilibrium in physical and chemical processes? Chapter 7 will delve into the details of the dynamic nature of equilibrium and give you some insights into the equilibrium constant, the law of mass action and the factors affecting equilibrium as per Le Chatelier's principle. You will also learn about the concept of pH, Henderson Equation, buffer solution, hydrolysis of salts, and other concepts with suitable examples. Chapter 8: Redox Reaction Chapter 8 enters into the world of oxidation and reduction. You will understand, in detail, what are redox reactions and how to balance them. It will also discuss redox reactions in terms of gain and loss of electrons. Chapter 9: Hydrogen The position of hydrogen in the periodic table has an important significance. In this chapter, you will learn about hydrogen, its isotopes, the uses of hydrogen and its properties. You will also learn about hydrogen as a fuel, about hydrides and different reactions using hydrogen peroxide. Chapter 10: s-Block Elements (Alkali and Alkaline Earth Metals) This chapter describes the anomalous behaviour of the first element of each group as well as the trends in the variations of their properties like atomic and ionic radii, ionization enthalpy, etc. It will also talk about the trends in chemical reactivity of water, halogens, oxygen, etc. Chapter 11: Some p-Block Elements In this chapter, students will learn about the Group 13 elements, their electronic configurations, the variation of their properties, and oxidation states. The chemical and physical properties of Boron and its important compounds like Boric acid, Borax, etc. will be discussed too. The chapter will also explain Group 14 elements with details on allotropic forms, carbon-catenations, etc. Chapter 12: Organic Chemistry – Some Basic Principles and Technique Chapter 12 introduces organic chemistry and the methods of purification as well as the qualitative and quantitative analysis used on substances. It explains the classification and IUPAC nomenclature of organic compounds as well as electronic displacements in a covalent bond. The chapter will also talk about homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, etc. Chapter 13: Hydrocarbons This chapter will help students learn about the classification of Hydrocarbons in detail. Plus, it talks about Aliphatic Hydrocarbons – Alkanes, Alkenes and Alkynes, their IUPAC names, nomenclature, physical properties, and chemical reactions. Chapter 14: Environmental Chemistry How is pollution reacting with our environment and making it toxic? Chapter 14 talks about pollution, the causes of smog and other atmospheric pollutants. It makes the student aware of the effects of ozone depletion, greenhouse effect, global warming and industrial wastes. The chapter also discusses different strategies that can be used to control environmental pollution. However interesting Chemistry might be, it's always better to plan it out so that you don't get too stressed. You can also download NCERT Chemistry Class 11 book to go through the soft copy of it and make instant notes. Pradeep's New Course Chemistry (Class-11) (Set of 2 Volumes) is an important book to have for all class 11 students who want to get a thorough understanding of the subject. It is a comprehensive textbook that gives a good insight into the workings of general principles of chemistry. The two volumes are exhaustive and include all that is necessary for any senior class science student to read and for anyone who is preparing for competitive examinations like AIEEE, IIT, etc. It begins by going over topics like the state of the elements, solid-state, biomolecules, polymers, alcohols, phenols, and others, etc. Pradeep's New Course Chemistry for Class 11 will be an ideal choice for students who are keen on learning Chemistry from the best. Published by Pardeep Publication, it comes in a set of two volumes in a paperback form. It closely follows the syllabus that has been prescribed by many boards, including the CBSE. Free Download Pradeep's New Course Chemistry Class 11. As per the Board Examination requirements of the CBSE and NCERT, Pradeep's New Course Chemistry (Class-11) (Set of 2 Volumes) has kept in mind all the necessary areas to be covered according to the syllabus prescribed and comes with a set of questions for every topic. 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BOOK NAME – PRADEEP'S NEW COURSE CHEMISTRY AUTHOR – S N DHAWAN, S C KHETERPAL, AND P N KAPIL SIZE – 184MB PAGES – 1366 Pradeep's New Course Chemistry (Class-11) (Set of 2 Volumes) covers all the necessary areas to equip a candidate with the knowledge to appear not only for the 11 board examinations but also other competitive examinations. Pradeep's New Course Chemistry (Class-11) (Set of 2 Volumes) is published by Pradeep Publications and is available in paperback format. Table of Contents Some Basic Concepts in Chemistry States Of Matter Atomic Structure Classification of Elements and Periodicity in Properties First Law of Thermodynamics and Chemical Energetics Chemical Bonding and Molecular Structure Equilibrium-1 (Equilibrium Processes and Phase Equilibria) Equilibrium-2 (Ionic Equilibrium in Solutions) Redox Reactions Principles and Processes of Extraction of Elements Hydrogen s-Block Elements Some p-Block Elements Organic Chemistry – Some Basic Principles Hydrocarbons Purification and Characterisation of Carbon Compounds Organic Compounds With Functional Groups Containing Halogens (Haloalkanes and Haloarenes) Environmental Chemistry Salient Features: 13,000 Plus Questions judiciously framed & selected covering each and every aspect of the subject. An authentic and Correct Answer makes the book almost error-free. Explanation to each and every answer makes the book self-sufficient. 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