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As NTA introduces Numeric Answer Questions in JEE Main, Disha launches the Questions' the 3rd latest updated edition of 'New Pattern NTA JEE Main Quick Guide in Chemistry with Numeric Answer Questions'. This study material is developed for quick revision and practice of the complete syllabus of the JEE Main Exam in a short span of 40 days. The book can prove to be the ideal material for class 12 students as they can utilise this book to revise their preparation immediately after the board exams. The book contains 27 chapters of class 11 & 12 and each Chapter contains: # JEE Main 6 Years at a Glance i.e., JEE Main (2019 - 2014) with TOPIC-WISE Analysis. # Detailed Concept Maps covers entire JEE Syllabus for speedy revision. # IMPORTANT/ CRITICAL Points of the Chapter for last minute revision. # TIPS to PROBLEM SOLVING – to help students to solve Problems in shortest possible time. # Exercise 1 CONCEPT BUILDER - A Collection of Important Topic-wise MCQs to Build Your Concepts. # Exercise 2 CONCEPT APPLICATOR – A Collection of Quality MCQs that helps sharpen your concept application ability. # Exercise 3 Numeric Answer Questions – A Collection of Quality Numeric Answer Questions as per the new pattern of JEE. # Answer Keys & Detailed Solutions of all the Exercises and Past years problems are provided at the end of the chapter. 1. The book deals with Chemistry subject for MHT CET entrances 2. The guide divided according to XI & XII Syllabus 3. Each chapter is accompanied with 3 level exercises 4. Complete coverage to 21 years' previous years' Solved Papers 5. Selected questions are given from 2021 online exam for quick revision Maharashtra Common Entrance Test or MHT CET is a state-level examination conducted by Maharashtra State Cell to give admission to the eligible candidates in Engineering and Pharmacy courses offered by Government & Private institutions across the state. The revised & updated edition of 'MHT CET Prep Guide 2022' deals with the subject of Chemistry that has been carefully designed to foster the quality of enhancement in the course of preparation for the upcoming paper. This book comprehensively covers all the chapters of Class XI & XII as per the latest reduced syllabus prescribed by the board. Providing a simple but effective approach to the subject matter, each chapter is well explained with detailed theories in a student friendly manner. For the complete practice of the exam, there are three-level exercises in each chapter ensuring step by step enhancement, Coverage to Previous 21 years' MHT CET Questions to get the exact idea of questions asked in exam and lastly, 5 Mock Tests are provided for quick revision of the concepts. With this edition of the book, you can hold the assurance of getting through the upcoming exam of MHT CET 2022. TOC Class XI: Some Basic Concepts of Chemistry, Structure of Atom, Chemical Bonding, Redox Reactions, Elements of Group 1 and 2, States of Matter: Gaseous and Liquid States, Adsorption and Colloids, Basic Principles of Organic Chemistry, Hydro Carbons, Solid States, Solutions, Ionic Equilibria, Chemical Thermodynamics, Electrochemistry, Chemical Kinetics, Elements of Groups 16, 17 and 18, Transition and Inner Transition Elements, Coordination Compounds, Halogen Derivatives, Alcohols, phenols and ethers, Aldehydes, ketones and carboxylic acid, Amines, Biomolecules, Introduction to Polymer Chemistry, Green Chemistry and Nanochemistry, Mock Test (1-5), Selected Questions (Online) MHTCET2021 This work evolved over thirty combined years of teaching general chemistry to a variety of student demographics. The focus is not to recap or review the theoretical concepts well described in the available texts. Instead, the topics and descriptions in this book make available specific, detailed step-by-step methods and procedures for solving the major types of problems in general chemistry. Explanations, instructional process sequences, solved examples and completely solved practice problems are greatly expanded, containing significantly more detail than can usually be devoted to in a comprehensive text. Many chapters also provide alternative viewpoints as an aid to understanding. Key Features: The authors have included every major topic in the first semester of general chemistry and most major topics from the second semester. Each is written in a specific and detailed step-by-step process for problem solving, whether mathematical or conceptual Each topic has greatly expanded examples and solved practice problems containing significantly more detail than found in comprehensive texts Includes a chapter designed to eliminate confusion concerning acid/base reactions which often persists through working with acid/base equilibrium Many chapters provide alternative viewpoints as an aid to understanding This book addresses a very real need for a large number of incoming freshman in STEM fields Exposure to a

wide variety of chemicals and drugs has become common in industrial, laboratory, and even household environments. Fortunately, global understanding and consequently global safety standards regarding the management of toxic and hazardous substances are fast approaching uniformity. The methods of handling, use, transportation, storage, and disposal in particular are moving toward standardization. As these protocols involving chemicals and drugs continue to cross international borders, students and professionals need a reliable resource to ensure they observe appropriate safety standards. The Industrial Guide to Chemical and Drug Safety covers not only current standards, but also a wealth of information on toxins to help regulatory bodies develop new protocols. Written in an accessible narrative style, the Guide covers chemicals by key classes such as solvents, pesticides, and metals, and also by key industries such as drugs, food additives, plastics, cosmetics, detergents, and soaps. The book explains the beneficial and harmful aspects of a broad range of materials to which students, trainees, skilled workers, managers, and personnel associated with regulatory agencies are exposed, with the purpose of helping them avoid the illnesses associated with the misuse of chemicals and drugs. Chapters include: -Heavy Metals -Pesticides -Industrial Solvents -Industrial Gases and Fumes -Drugs -Target Organ Toxicity -Disposal of Hazardous Chemicals -Guidance to Students and Workers -Good Laboratory Practice Guide to Biochemistry provides a comprehensive account of the essential aspects of biochemistry. This book discusses a variety of topics, including biological molecules, enzymes, amino acids, nucleic acids, and eukaryotic cellular organizations. Organized into 19 chapters, this book begins with an overview of the construction of macromolecules from building-block molecules. This text then discusses the strengths of some weak acids and bases and explains the interaction of acids and bases involving the transfer of a proton from an acid to a base. Other chapters consider the effectiveness of enzymes, which can be appreciated through the comparison of spontaneous chemical reactions and enzyme-catalyzed reactions. This book discusses as well structure and function of lipids. The final chapter deals with the importance and applications of gene cloning in the fundamental biological research, which lies in the preparation of DNA fragments containing a specific gene. This book is a valuable resource for biochemists and students. Previously published as: Chemistry: the easy way by Joseph A. Mascetta in 2019. The thoroughly revised & updated 5th Edition of NEET 2018 Chemistry (Must for AIIMS/ JIPMER) is developed on the objective pattern following the chapter plan as per the NCERT books of class 11 and 12. • The new edition is empowered with an additional exercise which contains Exemplar & past 5 year NEET (2013 - 2017) questions. Concept Maps have been added for each chapter. • The book contains 31 chapters in all as per the NCERT books. • Each chapter provides exhaustive theory followed by a set of 2 exercises for practice. The first exercise is a basic exercise whereas the second exercise is advanced. • The solutions to all the questions have been provided immediately at the end of each chapter. The complete book has been aligned as per the chapter flow of NCERT class 11 & 12 books. This monograph acts as a benchmark to current achievements in the field of Computer Coupling of Phase Diagrams and Thermochemistry, often called CALPHAD which is an acronym for Computer CALculation of PHase Diagrams. It also acts as a guide to both the basic background of the subject area and the cutting edge of the topic, combining comprehensive discussions of the underlying physical principles of the CALPHAD method with detailed descriptions of their application to real complex multi-component materials. Approaches which combine both thermodynamic and kinetic models to interpret non-equilibrium phase transformations are also reviewed. Incorporating the latest developments in pharmacology and therapy, this fully revised Second Edition is an ideal quick reference for those who prescribe psychotropic drugs for young people. New and notable features include: discussions of new drugs and health supplements; revised diagnostic terminology that accords with current DSM-IV nomenclature; reports on anti-epileptic medications; guidelines for the appropriate use of psychoactive medications; and instruction on the monitoring of physical, behavioral, and cognitive effects of various drugs. The handy spiral format makes the book easy to use. The second edition of The Biomarker Guide is a fully updated and expanded version of this essential reference. Now in two volumes, it provides a comprehensive account of the role that biomarker technology plays both in petroleum exploration and in understanding Earth history and processes. Biomarkers and Isotopes in Petroleum Exploration and Earth History itemizes parameters used to genetically correlate petroleum and interpret thermal maturity and extent of biodegradation. It documents most known petroleum systems by geologic age throughout Earth history. The Biomarker Guide is an invaluable resource for geologists, petroleum geochemists, biogeochemists, and environmental scientists. Practical Guide to Materials Characterization Practice-oriented resource providing a hands-on overview of the most relevant materials characterization techniques in chemistry, physics, engineering, and more Practical Guide to Materials Characterization focuses on the most widely used experimental approaches for structural, morphological, and spectroscopic characterization of materials, providing background, insights on the correct usage of the respective techniques, and the interpretation of the results. With a focus on practical applications, the work illustrates what to use and when, including real-life examples showing which characterization techniques are best suited for particular purposes. Furthermore, the work covers the practical elements of the analytical techniques used to characterize a wide range of functional materials (both in bulk as well as thin film form) in a simple but thorough manner. To aid in reader comprehension, Practical Guide to Materials Characterization is divided into eight distinct chapters. To set the stage, the first chapter of the book reviews the fundamentals of materials characterization that are necessary to understand and use the methods presented in the ensuing chapters. Among the techniques covered are X-ray diffraction, Raman spectroscopy, X-ray spectroscopy, electron microscopies, magnetic measurement techniques, infrared spectroscopy, and dielectric measurements. Specific sample topics covered in the remaining seven chapters include: Bragg's Law, the Von Laue Treatment, Laue's Equation, the Rotating Crystal Method, the Powder Method, orientation of single crystals, and structure of polycrystalline aggregates Classical theory of Raman scattering, quantum theory of Raman spectroscopy, high-pressure Raman spectroscopy, and surface enhanced Raman spectroscopy Basic principles of XAS, energy referencing, XPS spectra and its features, Auger Electron Spectroscopy (AES), and interaction of electrons with matter Magnetization measuring instruments, the SQUID magnetometer, and the advantages and disadvantages of vibrating sample magnetometer (VSM) With comprehensive and in-depth coverage of the subject, Practical Guide to Materials Characterization is a key resource for practicing professionals who wish to better understand key concepts in the field and seamlessly harness them in a myriad of applications across many different industries. Gathers in one place descriptions of NIST's many programs, products, services, and research projects, along with contact names, phone numbers, and e-mail and World Wide Web addresses for further information. It is divided into chapters covering each of NIST's major operating units. In addition, each chapter on laboratory programs includes subheadings for NIST organizational division or subject areas. Covers: electronics and electrical engineering; manufacturing engineering; chemical science and technology; physics; materials science and engineering; building and fire research and information technology. The major reason for presenting ultraviolet light, or which make

only a casual graphy on fluorescence and phosphorescence reference to the fluorescence technique were can be summed up in one statement: A recent usually rejected. However, occasionally survey showed that twenty-two percent of all papers of this nature were included because chemical and clinical research was unintentionally duplicated. A comprehensive source potential for the problems discussed. Again, if pertinent papers were missed the authors book of fluorescence and phosphorescence would be grateful to have these omissions techniques is therefore needed not only to suggest ideas for future research, but to help called to their attention. The abbreviations of journal names em decrease needless duplication and expense, ploymed in this Guide are those used by and thus to promote the development of both disciplines. Chemical Abstracts. Each paper has been The authors hope that researchers new given an alpha-numerical identification. Sec to fluorescence techniques will appreciate tion A contains papers published in theyears the convenience of this Guide for obtaining 1950-1953, section B the years 1954-1956, data which otherwise could be found only by section C the years 1957-1959, and section reviewing dozens of papers, many difficult to D the years 1960-1964. Section E contains find, and that old hands will find ita valuable papers missed in the original compilation. Der Inhalt: Stauen und Trennen, wie es im IMDG-Code steht! Der international geschätzte Storck Guide (in englischer Sprache) unterstützt Ladungsoffiziere, Stauplaner, Inspektionen und Kontrollorgane, Containerbelader und Terminals bei der Schiffs- und Containerbeladung mit gefährlichen Gütern. Was auch im neuen IMDG-Code immer noch auf über 1.200 Seiten verteilt hinsichtlich der Stauung und Trennung steht, findet man hier auf nur circa 150 Seiten übersichtlich zusammengefasst. Die aktualisierte 23. Auflage berücksichtigt die Vorschriften des IMDG-Codes in der Fassung des Amendments 36-12, die bereits ab 2013 angewendet werden dürfen und ab 2014 verbindlich anzuwenden sind. Der International Maritime Dangerous Goods Code (IMDG-Code) regelt weltweit die Beförderung gefährlicher Güter mit Seeschiffen. Klassenweise werden die generellen und speziellen Zusammenstauvorschriften mit anderen gefährlichen Gütern und Klassen (außer Klassen 1 und 7) aufgezeigt. Farbige Trenntabellen dienen der Schnellinformation, ein praktisches Griffregister erleichtert den Zugriff. Water pollution is topic of immense and common concernthroughout the world. This book presents the results and datafrom research and adsorption experiments carried out on the removalof nickel and chromium (as well as other metals) from aqueoussolutions using modified silica sand. Working Guide to Vapor-Liquid Phase Equilibria Calculations offers a practical guide for calculations of vapor-phase equilibria. The book begins by introducing basic concepts such as vapor pressure, vapor pressure charts, equilibrium ratios, and flash calculations. It then presents methods for predicting the equilibrium ratios of hydrocarbon mixtures: Wilson's correlation, Standing's correlation, convergence pressure method, and Whitson and Torp correlation. The book describes techniques to determine equilibrium ratios of the plus fraction, including Campbell's method, Winn's method, and Katz's method. The remaining chapters cover the solution of phase equilibrium problems in reservoir and process engineering; developments in the field of empirical cubic equations of state (EOS) and their applications in petroleum engineering; and the splitting of the plus fraction for EOS calculations. Includes explanations of formulas Step by step calculations Provides examples and solutions The Czech Republic is one of the motherlands of beer culture – beers of the pilsner brewing tradition and the aromatic Saaz hops are famous the world over. Brewing technicians and scientists from the Czech Republic have an excellent reputation and are constantly seeking an exchange and discussion of their research findings on the international scene. And the team of authors around Professor Basařová are all experienced technicians and scientists with a wealth of international experience. "The Comprehensive Guide to Brewing" is a unique groundwork for brewing technicians which deals with all subject areas, from the raw materials to packaging. It also conveys advanced knowledge of the fundamentals of brewing research. Compulsory reading for anyone who wishes to gain in-depth knowledge of brewing technology. Contains large number of Solved Examples and Practice Questions. Answers, Hints and Solutions have been provided to boost up the morale and increase the confidence level. Self Assessment Sheets have been given at the end of each chapter tohelp the students to assess and evaluate their understanding of the concepts. This complete solutions manual and study guide is the perfect way to prepare for exams, build problem-solving skills, and get the grade you want! This useful resource reinforces skills with activities and practice problems for each chapter. After completing the end-of-chapter exercises, you can check your answers for the odd-numbered questions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. "Our Walkthrough Guide designed to teach the Level 3 Aqueous Systems external, with helpful images and diagrams. Our Walkthrough Guide includes: Everything you need to know about solubility and equilibrium. An explanation of titration curves and buffer solutions. How to calculate the pH of acids and bases. Advice to tackle specific exam questions, including wording and expected answers. Each section includes Stop and Checks and Quick Questions to test parts of your understanding that need work, and to help you study smarter, not harder. All of the answers, including how we got there are available online."--Publisher description. This comprehensive quick-reference guide covers over 400 chemicals found in groundwater, the unsaturated zone, and the work environment. It serves as a practical reference that will be useful to all groundwater professionals, attorneys, regulators, health officials, engineers, and students. The field guide features information on these topics: Physical and chemical properties Fire hazard data Health data Manufacturing Exposure and symptoms Synonyms Chemical designations Study more effectively and improve your performance at exam time with this comprehensive guide. The study guide includes: chapter summaries that highlight the main themes, study goals with section references, solutions to all textbook Example problems, and over 1,500 practice problems for all sections of the textbook. The Study Guide helps you organize the material and practice applying the concepts of the core text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. The new edition of B.Sc. Nursing–General Nursing & Midwifery (GNM) Entrance Exam 2022 by Team Prabhat introduces as a systematic and comprehensive study guide for assisting the aspirants in their exhaustive preparation. Highlights of the Book: Last 4 Years' Entrance Exam Solved Papers 3 Practice Sets Subjects divided Chapterwise MCQs present Chapterwise Solved Practice Sets Ample Diagrams and Tables Answers with Explanations Lucid Language Usage Simplified and Thorough Learning Here's a tip: Always set a timer while solving a Practice Set which will increase your speed and accuracy! The book prepares you not only for cracking the B.Sc. Nursing (GNM) Entrance Exam but also improving your mental ability for future tests in Medical Sciences. The contents of the book, including previous years' papers, important theory, theory-based exercises, focus on MCQs, additional questions for practice, make up the formula to measure your progress and enhance your knowledge. The oil and gas engineer on the job requires knowing all the available oil field chemicals and fluid applications that are applicable to the operation. Updated with the newest technology and available products, Petroleum Engineer's Guide to Oil Field Chemicals and Fluids, Second Edition, delivers all the necessary lists of chemicals by use, their basic components, benefits, and environmental implications.

In order to maintain reservoir protection and peak well production performance, operators demand to know all the options that are available. Instead of searching through various sources, Petroleum Engineer's Guide to Oil Field Chemicals and Fluids, Second Edition, presents a one-stop non-commercialized approach by organizing the products by function, matching the chemical to the process for practical problem-solving and extending the coverage with additional resources and supportive materials. Covering the full spectrum, including fluid loss additives, drilling muds, cement additives, and oil spill treating agents, this must-have reference answers to every oil and gas operation with more options for lower costs, safer use, and enhanced production. Effectively locate and utilize the right chemical application specific to your oil and gas operation with author's systematic approach by use Gain coverage on all oil field chemicals and fluids needed throughout the entire oil and gas life cycle, including drilling, production, and cementing Understand environmental factors and risks for oil field chemicals, along with pluses and minuses of each application, to make the best and safest choice for your operation Advanced Physical Chemistry Practical Guide aims to improve the student's understanding of theory through practical experience and by facilitating experimental exercises. The book covers a wide range of areas from basic to advanced experiments including the calibration of instruments as well as the use of software for accurate computational quantum chemical calculations. This book is divided into four sections: Part I - general introduction, calibration of glassware, instruments and precautions Part II - experiments that have a simple theoretical background and classical methods Part III - experiments that are associated with more advanced theory, and technique that require a greater degree of experimental skill and instrumentation Part IV – investigative experiments relying on computers Covering all aspects of classical, advanced and computational chemistry experiments, Advanced Physical Chemistry Practical Guide will enable students to gain confidence in their ability to perform a physical chemistry experiment and to appreciate the value of an experimental approach towards the subject. Advanced Physical Chemistry Practical Guide is an essential handbook for students and teachers at advanced levels who seek to learn practical knowledge about important aspects of physical chemistry. Identifies new approaches for pollution prevention in cleaning and degreasing processes to remove dirt, soil, and grease in various manufacturing industries . Addresses available technologies, emerging technologies, pollution prevention strategy and benefits, operating features, application, and limitations. List of information sources. Drawings, charts and figures. A Comprehensive Guide to Toxicology in Preclinical Drug Development is designed for toxicologists who need a thorough understanding of the drug development process. This multi-contributed reference will provide a detailed picture of the complex and highly interrelated activities of preclinical toxicology in both small molecules and biologics. Intended as a comprehensive resource for toxicologists in industry and regulatory settings, as well as directors working in contract resource organizations (CRO), this book will discuss discovery toxicology and the international guidelines for safety evaluation and present both traditional and nontraditional toxicology models. By incorporating the latest research in this area and featuring real-life examples and scenarios, this reference is a complete and practical guide to all aspects of preclinical drug testing. Chapters written by world-renowned contributors who are experts in their fields. Includes the latest research in preclinical drug testing and international guidelines. Covers preclinical toxicology in small molecules and biologics in one single source. Incorporates real-life case studies and examples and offers readers a practical resource that outlines day-to-day activities and experiences in preclinical toxicology.

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