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Textbook of Optics MCQs in Microbiology *New Age International* **Law of Crimes A Textbook of Inorganic Chemistry - Volume 1** *Dalal Institute* An advanced-level textbook of inorganic chemistry for the graduate (B.Sc) and postgraduate (M.Sc) students of Indian and foreign universities. This book is a part of four volume series, entitled "A Textbook of Inorganic Chemistry - Volume I, II, III, IV". CONTENTS: Chapter 1. Stereochemistry and Bonding in Main Group Compounds: VSEPR theory, $d\pi - p\pi$ bonds, Bent rule and energetic of hybridization. Chapter 2. Metal-Ligand Equilibria in Solution: Stepwise and overall formation constants and their interactions, Trends in stepwise constants, Factors affecting stability of metal complexes with reference to the nature of metal ion and ligand, Chelate effect and its thermodynamic origin, Determination of binary formation constants by pH-metry and spectrophotometry. Chapter 3. Reaction Mechanism of Transition Metal Complexes - I: Inert and labile complexes, Mechanisms for ligand replacement reactions, Formation of complexes from aquo ions, Ligand displacement reactions in octahedral complexes- acid hydrolysis, Base hydrolysis, Racemization of tris chelate complexes, Electrophilic attack on ligands. Chapter 4. Reaction Mechanism of Transition Metal Complexes - II: Mechanism of ligand displacement reactions in square planar complexes, The trans effect, Theories of trans effect, Mechanism of electron transfer reactions - types; Outer sphere electron transfer mechanism and inner sphere electron transfer mechanism, Electron exchange. Chapter 5. Isopoly and Heteropoly Acids and Salts: Isopoly and Heteropoly acids and salts of Mo and W: structures of isopoly and heteropoly anions. Chapter 6. Crystal Structures: Structures of some binary and ternary compounds such as fluorite, antiferite, rutile, antirutile, cristobalite, layer lattices- CdI_2 , BiI_3 ; ReO_3 , Mn_2O_3 , corundum, perovskite, Ilmenite and Calcite. Chapter 7. Metal-Ligand Bonding: Limitation of crystal field theory, Molecular orbital theory, octahedral, tetrahedral or square planar complexes, π -bonding and molecular orbital theory. Chapter 8. Electronic Spectra of Transition Metal Complexes: Spectroscopic ground states, Correlation and spin-orbit coupling in free ions for 1st series of transition metals, Orgel and Tanabe-Sugano diagrams for transition metal complexes ($d1 - d9$ states), Calculation of Dq , B and β parameters, Effect of distortion on the d-orbital energy levels, Structural evidence from electronic spectrum, Jahn-Teller effect, Spectrochemical and nephelauxetic series, Charge transfer spectra, Electronic spectra of molecular addition compounds. Chapter 9. Magnetic Properties of Transition Metal Complexes: Elementary theory of magneto-chemistry, Guoy's method for determination of magnetic susceptibility, Calculation of magnetic moments, Magnetic properties of free ions, Orbital contribution, effect of ligand-field, Application of magneto-chemistry in structure determination, Magnetic exchange coupling and spin state cross over. Chapter 10. Metal Clusters: Structure and bonding in higher boranes, Wade's rules, Carboranes, Metal Carbonyl Clusters - Low Nuclearity Carbonyl Clusters, Total Electron Count (TEC). Chapter 11. Metal- π Complexes: Metal carbonyls, structure and bonding, Vibrational spectra of metal carbonyls for bonding and structure elucidation, Important reactions of metal carbonyls; Preparation, bonding, structure and important reactions of transition metal nitrosyl, dinitrogen and dioxygen complexes; Tertiary phosphine as ligand. **Advanced Physical Chemistry** *Krishna Prakashan Media* **CHILDHOOD AND GROWING UP** *PHI Learning Pvt. Ltd.* The book, with comprehensive and practicable coverage, acquaints its readers with thorough knowledge and skills to help the growing children in their proper growth and development enabling them to reach the limit of their excellence on one hand, and instilling in them the sense of responsibility towards their society and nation on the other hand. It dwells on the essential topics such as nature of the process of growth and development going on at the various ages and developmental stages of children, their developmental needs and characteristics, individual differences and diversities existing among them, development of various abilities and capacities like intelligence, creativity, and overall personality characteristics, nature of the age-linked behavioural problems, adjustment and mental health, parenting styles, and methods of dealing with the behavioural problems, adjustment, and stressful conditions of the developing children. The text equips the readers with all what is in demand for helping the developing children at this juncture of rapid industrialisation, globalisation, urbanisation, modernisation and economic change. It is primarily designed for the undergraduate students of education and elementary education. **KEY FEATURES** • Incorporates quite advanced topics such as emotional intelligence, use of reflective journals, anecdotal records and narratives as method of understanding child's behaviour, and so on • Includes detailed discussion of theories of child development, theories of learning, theories of intelligence, theories of achievement motivation, theories of creativity, and theories of personality • Offers engaging language and user-friendly mode of discussion • Adequately illustrated with examples, figures and tables • Comprises chapter-end summary for quick glance of the concepts. **Communication and Educational Technology in Nursing** *Elsevier India* **New Trends in Green Chemistry** *Springer Science & Business Media* **Organic chemistry**

has played a vital role in the development of diverse molecules which are used in medicines, agrochemicals and polymers. Most of the chemicals are produced on an industrial scale. The industrial houses adopt a synthesis for a particular molecule which should be cost-effective. No attention is paid to avoid the release of harmful chemicals in the atmosphere, land and sea. During the past decade special emphasis has been made towards green synthesis which circumvents the above problems. Prof. V. K. Ahluwalia and Dr. M. Kidwai have made a sincere effort in this direction. This book discusses the basic principles of green chemistry incorporating the use of green reagents, green catalysts, phase transfer catalysis, green synthesis using microwaves, ultrasound and biocatalysis in detail. Special emphasis is given to liquid phase reactions and organic synthesis in the solid phase. I must congratulate both the authors for their pioneering efforts to write this book. Careful selection of various topics in the book will serve the rightful purpose for the chemistry community and the industrial houses at all levels. PROF. JAVED IQBAL, PhD, FNA Distinguished Research Scientist & Head Discovery Research Dr. Reddy's Laboratories Ltd. A Textbook of B.Sc. Mathematics Abstract Algebra S. Chand Publishing A Textbook of B.Sc. Mathematics Abstract Algebra Data Interpretation & Data Sufficiency Arihant Publications India limited Entrepreneurial Journalism Routledge Entrepreneurial journalism has emerged as a 'hot topic' for 21st century journalism, not just in the industry itself, but also in the academic community. This timely book seeks to make sense of the dramatic transformation of journalism, with a specific focus on what entrepreneurialism means for the world of journalism. The volume brings together leading international scholars to examine critical topics including the ethics underpinning new funding models such as crowdfunding; best practices in entrepreneurial journalism education; the implications of the emergence of a start-up culture; and differing interpretations of what is understood by the term 'entrepreneurialism' in the field of journalism. The collection analyses and discusses the future of journalism from the perspective of entrepreneurial culture drawing on relevant case studies from the United Kingdom, Belgium, France, Spain, Greece, Denmark, Canada, and the United States. This book was originally published as a special issue of Journalism Practice. Instrumentation Measurement and Analysis Set Theory American Mathematical Soc. This work is a translation into English of the Third Edition of the classic German language work Mengenlehre by Felix Hausdorff published in 1937. From the Preface (1937): "The present book has as its purpose an exposition of the most important theorems of the theory of sets, along with complete proofs, so that the reader should not find it necessary to go outside this book for supplementary details while, on the other hand, the book should enable him to undertake a more detailed study of the voluminous literature on the subject. The book does not presuppose any mathematical knowledge beyond the differential and integral calculus, but it does require a certain maturity in abstract reasoning; qualified college seniors and first year graduate students should have no difficulty in making the material their own ... The mathematician will ... find in this book some things that will be new to him, at least as regards formal presentation and, in particular, as regards the strengthening of theorems, the simplification of proofs, and the removal of unnecessary hypotheses." Advanced Engineering Mathematics Jones & Bartlett Learning Accompanying CD-ROM contains ... "a chapter on engineering statistics and probability / by N. Bali, M. Goyal, and C. Watkins."--CD-ROM label. Modern Indian Literature Poems and Short Stories Professional Ethics and Human Values Firewall Media FINANCIAL ACCOUNTING -- II Sonnets UGC-Net Yoga (Paper II) Exam Guide Ramesh Publishing House The present mentoring book has been specially published for the aspirants of UGC-NET Yoga (Paper-II) for Eligibility to JRF and Assistant Professor positions. The book covers all important and relevant Chapters & Topics at appropriate length along with exhaustive exercises Solved by Experts. To enable you to be well-conversant with the exam-pattern, the book is well-equipped with Solved Previous Years' Papers. Intensive Practice of Actual Exam-style Questions & numerous Practice Questions, modelled on Previous Years' Papers, will immensely help you Sharpen your Problem Solving Skills and face the National Eligibility Test Confidently. While the specialised study material of this book is aimed to prepare you for the NET, your due diligence and practice with this, will definitely ensure you success in your pursuit. Park's Textbook of Preventive and Social Medicine Fundamentals of Agronomy Agronomy deals with the science and technology of producing and using plants for food, fuel, fiber, and land reclamation. The importance of agronomy provides farmers with agricultural information about how to grow and care for plants and soils in certain environments. Factors such as climate, roots, moisture, weeds, pests, fungi, and erosion can pose significant challenges when farmers attempt to produce a plentiful harvest. In order to discover ways of integrating crops into the environment in ways that will allow them to prosper, agronomists study these agricultural hurdles. Throughout history, scientific and technological advances have greatly impacted the agriculture industry. Early farmers improved their crop production by inventing the first hoes. Today, farmers improve crop production through the use of global positioning systems (GPS). How did these changes happen? How did people learn about new ideas? How have these ideas changed farming methods? In recent times, research and development in this area have made innovations in farming products and practices. Fundamentals Of Agronomy presents the comprehensive coverage in the pursuit of improving the yield of crops, protecting crops against diseases and pest, making livestock healthy all the time, designing the best method of crops storage and even helping in predicting the climate conducive for agricultural practice cannot be over emphasized. Crop protection is very vital in agriculture. Disease affects plants and leads to delay in metabolic activities, stunted growth, shedding of flowers and fruits and sometimes the actual death of the plant. Cultural and chemical controls are most of the time used. Culturally, crop rotation is adopted, burning remains after harvesting, regular weeding of the soil, proper spacing of crops using of high yielding and resistant varieties and practicing of irrigation during dry season are adopted. This book will be of interest to students, professional practitioners, educators, and advisers who work directly with farmers, companies, and others in the agriculture community to implement the latest methods and tools for growing crops profitably and sustainably. Corporate Accounting Sultan Chand & Sons The 14th Revised Edition of the book "Corporate Accounting" includes the provision of the Companies Act, 2013, SEBI rules and regulations and Accounting Standards, wherever applicable. The whole book has been updated and corrections made wherever required. Theory and accounting treatment has been revised as per Accounting Standards - 4 (Revised) and Companies (Amendment) Act,

2019. Each aspect of a chapter has been discussed in detail in order to meet the requirements of the syllabus prescribed by different universities and professional institutes. Salient Features of the Book The following features are worth nothing in the present text: • The illustrations and assignment material has been made to conform to the requirements of Schedule III of the Companies Act, 2013. The relevant problems/ solutions has also been revised. • The revised revision of Paragraph 14 of Accounting Standards – 4 concerning Financial Statements regarding Proposed final dividend has been incorporated at relevant pages and the illustrations amended accordingly. • The relevant provisions of Ind AS – 7: Statements of Cash Flows dealing with Bank Overdraft and Proposed Dividend have also been taken care of in this book. • In the chapter of Redemption of Debentures, the treatment of interest on Debenture Redemption Funds Investments or Profit (or Loss) on the sale of DRFI have been also summerised in the chapter. • All chapters have been revised and udapted. Problem of each chapter have been suitably graded and edited to include questions of topical interest. We are confident that the book in its revised form will be more useful for B.Com (Pass and Hons.), M.Com, M.B.A., C.A., I.P.C.E, C.A.(Final), I.C.M.A. (Stage II) and Company Secretaries (Executive Programme) Examinations. Organic Reactions And Their Mechanisms *New Age International* How Mathematicians Think Using Ambiguity, Contradiction, and Paradox to Create Mathematics *Princeton University Press* To many outsiders, mathematicians appear to think like computers, grimly grinding away with a strict formal logic and moving methodically--even algorithmically--from one black-and-white deduction to another. Yet mathematicians often describe their most important breakthroughs as creative, intuitive responses to ambiguity, contradiction, and paradox. A unique examination of this less-familiar aspect of mathematics, *How Mathematicians Think* reveals that mathematics is a profoundly creative activity and not just a body of formalized rules and results. Nonlogical qualities, William Byers shows, play an essential role in mathematics. Ambiguities, contradictions, and paradoxes can arise when ideas developed in different contexts come into contact. Uncertainties and conflicts do not impede but rather spur the development of mathematics. Creativity often means bringing apparently incompatible perspectives together as complementary aspects of a new, more subtle theory. The secret of mathematics is not to be found only in its logical structure. The creative dimensions of mathematical work have great implications for our notions of mathematical and scientific truth, and *How Mathematicians Think* provides a novel approach to many fundamental questions. Is mathematics objectively true? Is it discovered or invented? And is there such a thing as a "final" scientific theory? Ultimately, *How Mathematicians Think* shows that the nature of mathematical thinking can teach us a great deal about the human condition itself. *Microbiology for Nurses* *Bailliere Tindall Limited* **Pharmaceutical Biotechnology** *Springer Science & Business Media* **Pharmaceutical Biotechnology** is a unique compilation of reviews addressing frontiers in biologicals as a rich source for innovative medicines. This book fulfills the needs of a broad community of scientists interested in biologicals from diverse perspectives—basic research, biotechnology, protein engineering, protein delivery, medicines, pharmaceuticals and vaccinology. The diverse topics range from advanced biotechnologies aimed to introduce novel, potent engineered vaccines of unprecedented efficacy and safety for a wide scope of human diseases to natural products, small peptides and polypeptides engineered for discrete prophylaxis and therapeutic purposes. Modern biologicals promise to dramatically expand the scope of preventive medicine beyond the infectious disease arena into broad applications in immune and cancer treatment, as exemplified by anti-EGFR receptors antibodies for the treatment of breast cancer. The exponential growth in biologicals such as engineered proteins and vaccines has been boosted by unprecedented scientific breakthroughs made in the past decades culminating in an in-depth fundamental understanding of the scientific underpinnings of immune mechanisms together with knowledge of protein and peptide scaffolds that can be deliberately manipulated. This has in turn led to new strategies and processes. Deciphering the human, mammalian and numerous pathogens' genomes provides opportunities that never before have been available—identification of discrete antigens (genomes and antigenomes) that lend themselves to considerably improved antigens and monoclonal antibodies, which with more sophisticated engineered adjuvants and agonists of pattern recognition receptors present in immune cells, deliver unprecedented safety and efficacy. Technological development such a nanobiotechnologies (dendrimers, nanobodies and fullerenes), biological particles (viral-like particles and bacterial ghosts) and innovative vectors (replication-competent attenuated, replication-incompetent recombinant and defective helper-dependent vectors) fulfill a broad range of cutting-edge research, drug discovery and delivery applications. Most recent examples of breakthrough biologicals include the human papilloma virus vaccine (HPV, prevention of women genital cancer) and the multivalent Pneumococcal vaccines, which has virtually eradicated in some populations a most prevalent bacterial ear infection (i.e., otitis media). It is expected that in the years to come similar success will be obtained in the development of vaccines for diseases which still represent major threats for human health, such as AIDS, as well as for the generation of improved vaccines against diseases like pandemic flu for which vaccines are currently available. Furthermore, advances in comparative immunology and innate immunity revealed opportunities for innovative strategies for ever smaller biologicals and vaccines derived from species such as llama and sharks, which carry tremendous potential for innovative biologicals already in development stages in many pharmaceutical companies. Such recent discoveries and knowledge exploitations hold the promise for breakthrough biologicals, with the coming decade. Finally, this book caters to individuals not directly engaged in the pharmaceutical drug discovery process via a chapter outlining discovery, preclinical development, clinical development and translational medicine issues that are critical the drug development process. The authors and editors hope that this compilation of reviews will help readers rapidly and completely update knowledge and understanding of the frontiers in pharmaceutical biotechnologies. **BUSINESS ENVIRONMENT** *PHI Learning Pvt. Ltd.* Designed primarily as a text for undergraduate and postgraduate students of management and commerce, this comprehensive and well-organized book equips the readers with the knowledge to analyze the domestic and global business environment. The focus of the book is on the assessment of the evolving business scenario using analytical underpinnings and latest data. This book clearly brings out the implications of changes in socio-economic and legal environment of business, and covers

business environment by tracking changes in national income, inflation, fiscal deficit, money supply, exchange rate, balance of payment and many other economic variables. Besides, it briefs on legal aspects, deliberates on demographic changes and changes in technical and natural environment of business. Besides students, practising managers and policy makers will also find the book as a useful reference. Key Features • Illustrations using latest data (upto June 2013) • Boxes containing numerical illustrations and technical details • Cases depicting Indian Business Environment and providing glimpses of evolving global business environment • Review questions, numerical problems and case analysis Companion Website: This text is supported by the companion website: www.phindia.com/veenapailwar/ containing useful resources for the teachers and study aids for the students.

Instructors' Resources: To support the teaching efforts the website contains—Answers to the end of the chapter Numerical Problems with explanation; More than 1000 crisp, clear and colourful PowerPoint Slides; and more than 1000 Multiple Choice Questions. **Students' Resources:** To strengthen the understanding of the students on the subject the website resources comprise—Interactive Multiple Choice Questions and hints for solving chapter-end Numerical Problems.

Rural Sociology in India *Popular Prakashan* Synthetic Dyes As this book has been gaining increasing popularity, I feel pleasure to present the third revised and enlarged edition of this book. In this edition more than 50 pages have been added. Five chapters have been rewritten and two new chapters have been added. At the end of this book, some selected questions on dyes have been added which will make the book more interesting.

Elements of Partial Differential Equations *Courier Corporation* This text features numerous worked examples in its presentation of elements from the theory of partial differential equations, emphasizing forms suitable for solving equations. Solutions to odd-numbered problems appear at the end. 1957 edition.

Psychology for Physiotherapists *Jaypee Brothers, Medical Publishers Pvt. Limited* - All the patients require psychological care not only to remove apprehensions and fear about future complications but also to instill confidence and assurance to recover - This pioneer work fills the gap of non-availability of authentic literature of psychology for physiotherapists - The authors guide and instruct students to identify ailment and impairment, select and apply psychological techniques and integrate them in treatment in a natural manner - The book integrates a wide variety of psychological techniques into a single problem-solving format consistent with the syllabus of BPT.

Animal Diversity "Animal Diversity is tailored for the restrictive requirements of a one-semester or one-quarter course in zoology, and is appropriate for both nonscience and science majors of varying backgrounds. This Ninth edition of Animal Diversity presents a survey of the animal kingdom with emphasis on diversity, evolutionary relationships, functional adaptations, and environmental interactions"--

Computer Methods in Power System Analysis *Select Constitutions Library Administration Ess Ess Publications*

Works of Dr. Shiyali Ramamrita Ranganathan (S.R. Ranganathan) need no introduction. They are renowned not because they cover certain facet of library and information science, but because they have been written by the father of library science in india, Dr. Ranganathan. These library science classics have been reprinted to make Dr. Ranganathan's work available to the current generation of librarians and for those to come. The book is a remarkable illustration of the application of systems analysis, study of work flow, and time and motion study to libraries. It also illustrates the need for the library manager and management to pay attention to the minutiae of library work and at the same to have a holistic view of library's functions. It is only very appropriate that Ranganathan provides an extract from the 'Mother' (page 66-72) by the mystic Shri Aurobindo to support this holistic approach to library administration.

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Principles & Practice of Taxation Company Law 2019

Fundamentals of Computers

An Introduction to Tort Law The second edition of An Introduction to Tort Law offers a clear exposition to the rapidly developing law of tort in Britain. For those coming to the subject for the first time it provides a succinct and thoughtful overview; ideal as an introduction, it will also be of use and interest to those engaged in the course or completing it, for it pulls themes together, illustrates important distinctions and provokes reflection on what has already been learnt. Many of the areas subjected to analysis and discussion are highly topical, such as the invasion of the privacy of celebrities, and liability for medical mishaps and industrial diseases. On these and many other subjects of relevance in modern society, Weir's comments act as a springboard for further study and reflection, as well as presenting an authoritative overview, enlivened by a fascinating and critical commentary, of the present situation and how we reached it. The second edition naturally includes recent developments in tort law, the most significant of which is doubtless the incorporation into English law of the European Convention on Human Rights. This has not only affected the outcome in a number of cases, but also brought about changes in our vocabulary, interpretation of enactments, and treatment of precedent, which are rather less easily documented.