

## Chemistry Olympiad Syllabus Eligibility Papers Askiitians

PRINCIPLES OF INSTRUMENTAL ANALYSIS is the standard for courses on the principles and applications of modern analytical instruments. In the 7th edition, authors Skoog, Holler, and Crouch infuse their popular text with updated techniques and several new Instrumental Analysis in Action case studies. Updated material enhances the book's proven approach, which places an emphasis on the fundamental principles of operation for each type of instrument, its optimal area of application, its sensitivity, its precision, and its limitations. The text also introduces students to elementary analog and digital electronics, computers, and the treatment of analytical data. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book is specially designed for B.Sc. Chemistry Honours Degree students. However, it is believed to be helpful to post-graduate students also. It covers by and large physical chemistry part of the Chemistry Honours syllabus taught in different Indian Universities. Elaborate and lucid discussion of each chapter is the

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strength of this book. Questions and numerical problems are also included at the end of almost every chapter. Strenuous effort has been given to derive different mathematical equations as well as to handle quantum mechanics using mathematics taught in undergraduate level. The book contains 20 chapters, covering the following topics: - Thermodynamics is thoroughly discussed in this book, covering 1st law, 2nd law and 3rd law of thermodynamics, their applications, thermochemistry and its applications. Applications of thermodynamics in different areas like refrigerators, compressors, power plants, IC engines etc. are also discussed. Statistical thermodynamics is also discussed elaborately. - Chemical kinetics is another important part of chemistry since it covers reaction rate, order of a reaction, theory behind the reaction rate etc. Catalyst is also an important aspect since it has profound influence on reaction rate. Type of catalyst and mechanism of different catalyzed reactions are discussed in detail. A chemical reaction reaches an equilibrium state if carried out in a closed container. However, the equilibrium is sufficiently influenced by other parameters, like pressure, temperature etc. - Different physical states of matter (gaseous state, liquid state and solid state). In the solid state behavior of conductors and semiconductors are discussed thoroughly using quantum mechanics. - Detailed discussion of electrochemistry, electrochemical cell and

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ionic equilibria is another important aspect of this book. Application of thermodynamics in electrochemical cell is also discussed. Concept of buffer solutions, pH and indicators are discussed in detail. - Phase equilibria is another important part of physical chemistry. The chapter includes details of phase rule, phase diagram, applications, different types of heterogeneous equilibrium system etc. - Colligative properties of dilute solutions are well documented, covering, Henry's law, Raoult's law of lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure etc. - Surface chemistry and properties of colloidal solutions are very much important in different chemical industries. These two sections are well discussed in this book. It includes details of derivation of different laws, theories behind the adsorption, stability of colloidal solutions etc. - Nuclear reactions are different from chemical reactions and energy, related to nuclear reactions is enormous, much higher than any chemical reaction. Study of different nuclear reactions including natural radioactivity, artificial radioactivity etc. and kinetics of nuclear reactions are well discussed in this book. Different areas of applications of nuclear reactions are also covered in this book. - Another important aspect of chemical reactions is chemical bonding. The book covers details of covalent bonding including quantum numbers, overlapping of atomic orbitals, molecular orbitals. Besides that ionic bonding and

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other types of bonding are also discussed in detail. - Photochemical reactions are different from chemical reactions. Light energy is the main source of photochemical reactions. Details of it including photochemical laws, mechanism etc. are well documented in this book.

Classic Chemistry Demonstrations is an essential, much-used resource book for all chemistry teachers. It is a collection of chemistry experiments, many well-known others less so, for demonstration in front of a class of students from school to undergraduate age. Chemical demonstrations fulfil a number of important functions in the teaching process where practical class work is not possible. Demonstrations are often spectacular and therefore stimulating and motivating, they allow the students to see an experiment which they otherwise would not be able to share, and they allow the students to see a skilled practitioner at work. Classic Chemistry Demonstrations has been written by a teacher with several years' experience. It includes many well-known experiments, because these will be useful to new chemistry teachers or to scientists from other disciplines who are teaching some chemistry. They have all been trialled in schools and colleges, and the vast majority of the experiments can be carried out at normal room temperature and with easily accessible equipment. The book will prove its worth again and again as a regular source of reference for planning

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lessons.

Competition Science Vision (monthly magazine) is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India. Well-qualified professionals of Physics, Chemistry, Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to-the-point study material for aspiring candidates. The magazine covers General Knowledge, Science and Technology news, Interviews of toppers of examinations, study material of Physics, Chemistry, Zoology and Botany with model papers, reasoning test questions, facts, quiz contest, general awareness and mental ability test in every monthly issue.

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This highly respected and valued textbook has been the book of choice for Cambridge IGCSE students since its publication. This new edition, complete with CD-ROM, continues to provide comprehensive, up-to-date coverage of the core and extended curriculum topics specified in the IGCSE Chemistry syllabus. The book is supported by a CD-ROM containing extensive revision and exam practice questions, background information and reference material.

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