

# Free read Paper chromatography viva questions [PDF]

Chromatography Comprehensive Practical Chemistry XII Chemistry for Degree Students B.Sc. (Honours) Semester II, 1/e (As per CBCS) Oswaal CBSE Question Bank Class 12 Chemistry, Chapterwise and Topicwise Solved Papers For Board Exams 2025 Oswaal CBSE Question Bank Class 12 English Core, Physics, Chemistry & Mathematics (Set of 4 Books) Chapterwise and Topicwise Solved Papers For Board Exams 2025 Oswaal CBSE Question Bank Class 12 English Core, Physics, Chemistry & Biology (Set of 4 Books) Chapterwise and Topicwise Solved Papers For Board Exams 2025 CBSE Class 12th Chemistry (10 Most Likely Question Papers with Solution) By Career Point Kota Practicals and Viva in Medical Biochemistry Chemistry for Degree Students (B.Sc. Elective Semester-V/VI - Elective-I) (As per CBCS) Textbook of Biochemistry for Medical Students Paper and Thin Layer Chromatography Comprehensive Experimental Chemistry Qrs for Bds I Year Oswaal CBSE & NCERT One for All Class 12 Chemistry (For 2024 Exam) Oswaal One for All Class 12 English, Physics, Chemistry & Mathematics (Set of 4 books) (For CBSE Board Exam 2024) Extraction Chromatography Chemistry for B.Sc. Students - Semester IV: Quantum Mechanics and Analytical Techniques (NEP-UP) Plant Physiology: Theory and Applications Fundamentals of Practical Clinical Biochemistry Modern Practice of Gas Chromatography Chromatography and Its Applications Chemistry for B.Sc. Students Semester II (NEP-UP) Medical Biochemistry: Exam Preparatory manual E-Book Preparative Chromatography Physics for the Anaesthetic Viva Zoology for B.Sc. Students Semester III: NEP 2020 Uttar Pradesh (LPSPE) Basic Gas Chromatography Practical Chemistry (For B.Sc. I, II and III Year Students) Candied's Science Engineering Chemistry (M.T.U.) Textbook of Chemistry (For B.Sc. First Semester of HP University, Shimla) Comprehensive Organic Chemistry Experiments for the Laboratory Classroom QRS for BDS I Year - E Book Applications of NMR Spectroscopy Thermodynamic Models for Industrial Applications Chemistry for B.Sc. Students: Analytical and Organic Chemistry :Semester I (According to KSHEC) (NEP 2020 Karnataka) Practical/Laboratory Manual Chemistry Class XII based on NCERT guidelines by Dr. S. C. Rastogi, Er. Meera Goyal Hard Bound Lab Manual Biology Biology Lab Manual Lab Manual Biology Hard Bound Class 11

2004-04-16

chromatography has emerged as the most important and versatile analytical method the book is not only an updated version of heftmann's classical text but it covers areas of future importance such as microfluidics and computer resources under his experienced guidance authorities in each field have contributed their practical experience to an integrated treatment of modern micro analysis in part a the theoretical basis of individual separation methods is explained and the technical aspects are illustrated it includes the theory of gas and liquid chromatography as well as specific chromatographic techniques such as size exclusion planar ion and affinity chromatography as well as various electrokinetic separation techniques microfluidics are covered for the first time and useful sources of analytical instruments are listed and evaluated 1 each chapter written by an authority 2 thorough treatment of the theoretical basis of separation methods 3 practical guide for performing analyses

## **Comprehensive Practical Chemistry XII**

2011-11

this textbook has been designed to meet the needs of b sc honours second semester students of chemistry as per the ugc choice based credit system cbcs maintaining the traditional approach to the subject this textbook lucidly explains the basics of organic and physical chemistry important topics such as alkanes alkenes alkynes stereochemistry aliphatic hydrocarbons thermochemistry chemical thermodynamics and chemical equilibrium are aptly discussed to give an overview of organic and physical chemistry laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures

## **Chemistry for Degree Students B.Sc. (Honours)** **Semester II, 1/e (As per CBCS)**

2022

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2023-03-12

2/15

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2024-01-06

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2024-02-15

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2024-02-15

the cbse has made certain changes in the assessment structure from the session 2019 20 onwards in the new scheme of examination cce and term system has been replaced with the internal assessment single annual exam by cbse itself single exam conducted by cbse will carry 80 marks whereas 20 marks are left to the schools for internal assessment cbse has issued detailed authentic guidelines on how the internal marks will be divided among different paper activities from 2019 onwards there will be internal choices in board examinations with increased internal options in the question paper considering this change now a student has to prepare accordingly for board examinations

2023-03-12

3/15

cambridge english preliminary 8 students without answers authentic examination papers from cambridge english language assessment pet practice tests by cambridge examinations the new assessment format brought with it excitement as well as anxiety and to help them prepare and excel in their cbse board examination career point kota has developed a series of 10 most likely question papers with solutions the key features of most likely question papers with solutions series new objective type question in each paper syllabus of cbse 2019 20 based on the latest cbse syllabus pattern mind map of each chapter is given to visualize and help acquire a better understanding important terms facts formulae and quick revision tips are given covers questions asked in previous year board exams toppers answer sheet as released by cbse to understand the scoring technique we hope this book will gratify students need for the new cbse pattern board exam and smoothen their path to success we wish to utilize the opportunity to place on record our special thanks to all the members of the content development team for their efforts to create this wonderful book

**CBSE Class 12th Chemistry (10 Most Likely Question Papers with Solution) By Career Point Kota**

2020-07-28

the subject matter has been divided into twelve chapters written in lucid language great care has been taken to explain the topics in such a simple way that it should be possible for the students to understand the various topics easily

# Practicals and Viva in Medical Biochemistry

2004

fully revised new edition presenting students with latest advances in field  
of biochemistry features clinical case studies mcqs short questions essays  
and viva voce questions for revision

**Chemistry for Degree Students (B.Sc. Elective Semester-V/VI - Elective-I) (As per CBCS)**

2016-06-02

chromatographic electrophoretic techniques fourth edition volume i paper and thin layer chromatography presents the methods of paper and thin layer chromatography this book discusses the practical approach in the application of paper and thin layer chromatography techniques in the biological sciences organized into 18 chapters this edition begins with an overview of the clinical aspects related to the detection of those metabolic diseases that can result in serious illness presenting in infancy and early childhood this text then discusses the three major types of screening for inherited metabolic disorders in which paper or thin layer chromatography are being used including screening the healthy newborn population and screening the sick from 2023-03-12 4/15 consider the procedures for thin layer chromatography language discusses as well the complexity of amino acid mixtures present in natural products tests the by

## Textbook of Biochemistry for Medical Students

2013-10-22

this book has been especially written for class xii students under 10 2 pattern of education according to the syllabi prescribed by the cbse and other states boards this book will help the students in acquiring correct skills in practicals and various techniques of all laboratory experiments salient features an introduction to the book is given this describes the laboratory apparatus and instructions and precautions for working in the laboratory simple language and lucid style adequate number of illustrations to explain and to clarify the use of various apparatus used in the laboratory theoretical aspects of each equipment have been discussed along with experiments in volumetric analysis both the normality and molarity concepts are made clear li in quantitative analysis inorganic and organic various tests have been given in a systematic way specimen recordings of experiments are given to help the students to record on their notebooks viva voice questions have been included in each chapter a fairly large number of investigatory projects covering various topics are given selection of projects is carefully made which can be easily performed in school laboratory an appendix describing various chemical hobbies is given which will be extremely helpful to the students for the development of chemical hobbies understanding the basic principles involved and the chemistry of various hobbies an appendix describing some typical chemical exhibits is also given this will help the students to participate in the science fares organized by various agencies these experiments will cultivate interest among the students for learning chemistry an appendix each for the solubility s of various salts atomic weights preparation of various reagents indicator papers and the first aid to be administered in case of accidents is given the syllabi prescribed for class xii students under 10 2 pattern along with distribution of marks is also given

## Paper and Thin Layer Chromatography

1997

quick review series for bds 1st year is an extremely exam oriented book the book contains a collection of the last 25 year s questions of general anatomy including embryology and histology physiology biochemistry oral histology and dental anatomy in accordance with the bds 1st year syllabus the book will serve the requirements of bds 1st year students to prepare for their examinations and help pg aspirants in quick review of important topics unique collection of last 25 years solved questions asked in major university examinations across india simple well illustrated lucid in content and style in two color format book contains numerous flowchart s and tables for easier understanding perfectly segregated in 5156 sections general anatomy including embryology and histology physiology biochemistry oral histology and dental anatomy self assessment questions and previous years question bank self

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## **Comprehensive Experimental Chemistry**

2020-06-10

description of the product strictly as per the latest cbse syllabus dated march 31 2023 cir no acad 39 2023 acad45 2023 100 updated for 2023 24 with latest rationalised ncrt textbooks concept clarity with concept wise revision notes mind maps mnemonics 100 exam readiness with previous year s questions board marking scheme answers valuable exam insights with 3000 ncrt exemplar questions extensive practice with unit wise self assessment questions practice papers nep compliance with competency based questions

## **Qrs for Bds I Year**

2023-07-12

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## **Oswaal CBSE & NCERT One for All Class 12 Chemistry (For 2024 Exam)**

2023-07-31

extraction chromatography

## **Oswaal One for All Class 12 English, Physics, Chemistry & Mathematics (Set of 4 books) (For CBSE Board Exam 2024)**

1975-06-01

this textbook has been conceptualized for b sc fourth semester students of chemistry as per the latest curriculum on the directives of nep 2020 for the universities of up maintaining the traditional approach to the subject this textbook comprehensively covers two papers namely theory and practical parts quantum mechanics and analytical techniques for theory part and instrumental

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cambridge english preliminary 8 students without answers authentic examination papers from cambridge english language assessment pet practice tests by cambridge analysis for practical part the topics covered in the book are atomic structure elementary quantum mechanics molecular spectroscopy rotational vibrational roman and electronic spectra uv visible spectroscopy infrared spectroscopy 1h nmr spectroscopy pmr introduction to mass spectrometry separation techniques in the theory part the practical part covering molecular weight determination spectrophotometry spectroscopy and chromatographic separations have been presented systematically to help students in achieving solid conceptional understanding and learn experimental procedures

## **Extraction Chromatography**

2020-12-03

this edition provides a comprehensive overview of the rapidly advancing field of plant physiology supplemented with experimental exercises

## **Chemistry for B.Sc. Students - Semester IV: Quantum Mechanics and Analytical Techniques (NEP-UP)**

2006

an easy to understand presentation of clinical biochemistry practicals for undergraduate students the book fully covers the syllabus as per the medical council of india mci guidelines in 33 chapters divided into 4 sections

## **Plant Physiology: Theory and Applications**

2004-08-04

the bible of gas chromatography offering everything the professional and the novice need to know about running maintaining and interpreting the results from gc analytical chemists technicians and scientists in allied disciplines have come to regard modern practice of gas chromatography as the standard reference in gas chromatography in addition to serving as an invaluable reference for the experienced practitioner this bestselling work provides the beginner with a solid understanding of gas chromatographic theory and basic techniques this new fourth edition incorporates the most recent developments in the field including entirely new chapters on gas chromatography mass spectrometry gc ms optimization of separations and computer assistance high speed or fast gas chromatography mobile phase requirements gas system requirements and sample preparation techniques qualitative and quantitative analysis by gc updated information on detectors validation and qa qc of chromatographic methods and useful hints for good gas chromatography as in previous editions contributing authors have been chosen for their expertise and active participation in their respective areas modern practice of gas chromatography fourth edition presents a well rounded and comprehensive overview of the current state of this important technology providing a practical reference that will greatly appeal to both experienced chromatographers and novices

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2012-03-16

chromatography is a powerful separation tool that is used in all branches of science and is often the only means of separating components from complex mixtures the russian botanist mikhaïl tswett coined the term chromatography in 1906 the first analytical use of chromatography was described by james and martin in 1952 for the use of gas chromatography for the analysis of fatty acid mixtures a wide range of chromatographic procedures makes use of differences in size binding affinities charge and other properties many types of chromatography have been developed these include column chromatography high performance liquid chromatography hplc gas chromatography size exclusion chromatography ion exchange chromatography etc in this book contains more details about the applications of chromatography by various research findings each and every topics of this book have included lists of references at the end to provide students and researchers with starting points for independent chromatography explorations i welcome comments criticisms and suggestions from students faculty and researchers

## Modern Practice of Gas Chromatography

2018-03-22

this textbook has been designed to meet the needs of b sc second semester students of chemistry as per common minimum syllabus prescribed for all uttar pradesh state universities and colleges under the recommended national education policy 2020 maintaining the traditional approach to the subject this textbook comprehensively covers two papers namely bioorganic and medicinal chemistry and biochemical analysis important theoretical topics such as chemistry of carbohydrates proteins nucleic acids laws of crystallography introduction classification of monomers oligomers polymers are aptly discussed to give an overview of bioorganic and medicinal chemistry practical part covering biochemical analysis has been presented systematically to help students achieve solid conceptual understanding and learn experimental procedures

## Chromatography and Its Applications

2012-09-27

the broad goal of teaching biochemistry to undergraduate students is to make them understand the scientific basis of the life processes at the molecular level and to orient them towards the application of the knowledge acquired in solving clinical problems it covers entire syllabus of biochemistry as per guidelines of medical council of india with more emphasis on clinical application of the subject it attempts at exposing the students to the theoretical answers to questions often asked in examination the examination papers test the knowledge but also incorporate the clinical applied aspects of biochemistry which are so important to help the students to think out of the box salient features provides the essential knowledge of biochemistry in

2023-03-12

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## ***Chemistry for B.Sc. Students Semester II (NEP-UP)***

2016-03-31

completely revised and substantially extended to reflect the developments in this fast changing field it retains the interdisciplinary approach that elegantly combines the chemistry and engineering involved to describe the conception and improvement of chromatographic processes it also covers recent advances in preparative chromatographic processes for the separation of smaller molecules using standard laboratory equipment as well as the detailed conception of industrial chemical plants the increase in biopharmaceutical substances is reflected by new and revised chapters on different modifications of continuous chromatography as well as ion exchange chromatography and other separation principles widely used in biochromatography following an introductory section on the history of chromatography the current state of research and the design of chromatographic processes the book goes on to define the general terminology there then follow sections on stationary phases selection of chromatographic systems and process concepts a completely new chapter deals with engineering and operation of chromatographic equipment final chapters on modeling and determination of model parameters as well as model based design optimization and control of preparative chromatographic processes allow for optimal selection of chromatographic processes essential for chemists and chemical engineers in the chemical pharmaceutical and food industries

## ***Medical Biochemistry: Exam Preparatory manual E-Book***

2011-09-20

a concise book that conveys the essential physics concepts required to pass the frca viva examinations with relevant applied questions

## ***Preparative Chromatography***

1972

this textbook has been designed to meet the needs of bsc third semester students of zoology as per common minimum syllabus prescribed for all uttar pradesh state universities and colleges under the recommended national education policy 2020 it comprehensively covers two papers namely theory paper on molecular biology bioinstrumentation and biotechniques and practical

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cambridge english preliminary 8 students without answers authentic examination papers from cambridge english language assessment pet practice tests by cambridge paper on bioinstrumentation and molecular biology lab the molecular biology english 2014 04 28 part of the book emphasizes the fundamental features of various aspects of dna rna and protein structure function and expression the regulation of gene expression in prokaryotes and eukaryotes is presented in a very lucid and comprehensive way

## **Physics for the Anaesthetic Viva**

2004

the new edition of the well regarded handbook on gas chromatography since the publication of the highly successful first edition of basic gas chromatography the practice of chromatography has undergone several notable developments basic gas chromatography second edition covers the latest in the field giving readers the most up to date guide available while maintaining the first edition s practical applied approach to the subject and its accessibility to a wide range of readers the text provides comprehensive coverage of basic topics in the field such as stationary phases packed columns and inlets capillary columns and inlets detectors and qualitative and quantitative analysis at the same time the coverage also features key additions and updated topics including gas chromatography mass spectrometry gc ms sampling methods multidimensional gas chromatography fast gas chromatography gas chromatography analysis of nonvolatile compounds inverse gas chromatography and pyrolysis gas chromatography along with these new and updated topics the references resources and sites in basic gas chromatography have been revised to reflect the state of the field concise and fundamental in its coverage basic gas chromatography second edition remains the standard handbook for everyone from undergraduates studying analytical chemistry to working industrial chemists

## **Zoology for B.Sc. Students Semester III: NEP 2020 Uttar Pradesh (LPSPE)**

2020-08-28

for b sc i ii iii year students

## **Basic Gas Chromatography**

2016-06-28

s chand textbook of chemistry sem i h p shimla

## **Practical Chemistry (For B.Sc. I, II and III Year Students)**

2016-11-22

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**10/15**

this expansive and practical textbook contains organic chemistry experiments for teaching in the laboratory at the undergraduate level covering a range of

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## ***Candied's Science***

2009-12-01

qrs for bds 1st year is an extremely exam oriented book now in third edition the book contains a collection of the last 25 years solved questions of general anatomy including embryology and histology general human physiology and biochemistry nutrition and dietetics and dental anatomy embryology and oral histology the book will serve the requirements of bds 2nd year students to prepare for their examinations and help pg aspirants in quick review of important topics it would also be helpful for pg students in a quick rush through the preclinical subjects each topic begins with outline of the essential facts text is followed by more detailed exposition with special emphasis on clear and simple figures and flowcharts presentation of self explanatory and easy to learn diagrams more emphasis on key points helps to recollect things easily

## **Engineering Chemistry (M.T.U.)**

2020-06-22

applications of nmr spectroscopy is a book series devoted to publishing the latest advances in the applications of nuclear magnetic resonance nmr spectroscopy in various fields of organic chemistry biochemistry health and agriculture the fifth volume of the series features several reviews focusing on nmr spectroscopic techniques for identifying natural and synthetic compounds polymer and peptide characterization gaba in tinnitus affected mice medical diagnosis and therapy gliomas and food analysis the spectroscopic methods highlighted in this volume include high resolution proton magnetic resonance spectroscopy and solid state nmr

## **Textbook of Chemistry (For B.Sc. First Semester of HP University, Shimla)**

2023-03-12

11/15

using an applications perspective thermodynamic models for industrial applications provides a unified framework for the development of various

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 thermodynamic models ranging from the classical models to some of the most advanced ones among these are the cubic plus association equation of state cpa eos and the perturbed chain statistical association fluid theory pc saft these two advanced models are already in widespread use in industry and academia especially within the oil and gas chemical and polymer industries presenting both classical models such as the cubic equations of state and more advanced models such as the cpa this book provides the critical starting point for choosing the most appropriate calculation method for accurate process simulations written by two of the developers of these models thermodynamic models for industrial applications emphasizes model selection and model development and includes a useful which model for which application guide it also covers industrial requirements as well as discusses the challenges of thermodynamics in the 21st century

## ***Comprehensive Organic Chemistry Experiments for the Laboratory Classroom***

analytical and organic chemistry is designed for b sc students of chemistry first semester of karnataka state higher education council kshc as per the recommended national education policy nep 2020 it covers important topics such as language of analytical chemistry titrimetric analysis classification and nomenclature of organic compounds nature of bonding in organic molecules mechanisms of organic reactions chemistry of alkanes alkenes nucleophilic substitution and aromaticity and aromatic hydrocarbons laboratory work includes experiments on both analytical and organic chemistry and contains calibration of glassware acid alkali potassium dichromate potassium permanganate and edta titrations along with selection of suitable solvents for purification crystallization of organic compounds as well as organic preparations

## **QRS for BDS I Year - E Book**

a surface chemistry 1 to prepare colloidal solution sol of starch 2 to prepare a colloidal solution of egg albumin 3 to prepare colloidal solution of gum 4 to prepare colloidal solution of aluminium hydroxide  $Al(OH)_3$  5 to prepare colloidal solution of ferric hydroxide  $Fe(OH)_3$  6 to prepare colloidal solution of arsenious sulphide  $As_2S_3$  7 to purify a freshly prepared sol by dialysis 8 to compare the effectiveness of different common oils castor oil cotton seed oil coconut oil kerosene oil mustard oil in forming emulsions viva voce b chemical kinetics 1 to study the effect of concentration on the rate of reaction between sodium thiosulphate and hydrochloric acid 2 to study the effect of temperature on the rate of reaction between sodium thiosulphate and hydrochloric acid 3 to study the rate of reaction of iodide ions with hydrogen peroxide at different concentrations of iodide ions 4 to study the rate of reaction between potassium iodate  $KIO_3$  and sodium sulphite  $Na_2SO_3$  using starch solution as indicator viva voce c thermochemistry 1 to determine the enthalpy of dissolution of copper sulphate  $CuSO_4 \cdot 5H_2O$  in water at room temperature 2 to determine the enthalpy of neutralization of the reaction

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between hcl and naoh 3 to determine enthalpy change during the interaction between acetone and chloroform viva voce d electrochemistry 1 to study the variation of cell potential in zn zn<sup>2</sup> cu<sup>2</sup> cu with change in concentration of electrolytes cuso<sub>4</sub> or znso<sub>4</sub> at room temperature viva voce e chromatography 1 to separate the coloured components pigment present in the given extract of leaves and flowers by ascending paper chromatography and find their rf values 2 to separate the coloured components present in the mixture of red and blue inks by ascending paper chromatography and find their rf values 3 to separate co<sub>2</sub> and ni<sup>2</sup> ions present in the given mixture by using ascending paper chromatography and determine their rf values viva voce f preparation of inorganic compounds 1 preparation of double salt of ferrous ammonium sulphate mohr s salt from ferrous sulphate and ammonium sulphate 2 to prepare a pure sample of potash alum fitkari 3 preparation of crystals of potassium ferric oxalate or pottasium trioxlato ferrate iii viva voce g preparation of organic compounds 1 preparation of iodoform from ethyl alcohol or acetone 2 preparation of acetanilide in laboratory 3 preparation of b naphthol aniline dye 4 to prepare a pure sample of dibenzalacetone 5 to prepare a pure sample of p nitro acetanilide viva voce h tests for the functional groups present in organic compounds viva voce i study of carbohydrates fats and proteins 1 to study simple reactions of carbohydrate 2 to study simple reactions of fats 3 to study simple reactions of proteins 4 to investigate presence of carbohydrates fats and proteins in food stuffs viva voce j volumetric analysis 1 to prepare 250 ml of m 10 solution of oxalic acid 2 to prepare 250 ml of m 10 solution of ferrous ammonium sulphate 3 prepare m 20 solution of oxalic acid with its help find out the molarity and strength of the given solution of potassium permanganate 4 prepare m 20 solution of mohr s salt using this solution determine the molarity and strength of potassium permanganate solution viva voce k qualitative analysis viva voce investigatory projects 1 to study the presence of oxalate ions in guava fruit at different stages of ripening 2 to study the quantity of caseine present in different samples of milk 3 preparation of soyabean milk and its comparison with natural milk with respect to curd formation effect of temperature etc 4 to study the effect of potassium bisulphite as food preservative at various concentrations 5 to study the digestion of starch by salivary amylase and the effect of ph and temperature on it 6 to study and compare the rate of fermentation of the following materials wheat flour gram flour potato juice and carrot juice 7 to extract essential oils present in saunf aniseed ajwain corum illaichi cardomom 8 to detect the presence of adulteration in fat oil and butter 9 to investigate the presence of no<sub>2</sub> in brinjal

## Applications of NMR Spectroscopy

lab manuals

## Thermodynamic Models for Industrial Applications

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**Organic Chemistry :Semester I (According to KSHCE)  
(NEP 2020 Karnataka)**

lab manual

**Practical/Laboratory Manual Chemistry Class XII  
based on NCERT guidelines by Dr. S. C. Rastogi, Er.  
Meera Goyal**

***Hard Bound Lab Manual Biology***

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