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(FREE SAMPLE) GENERAL SCIENCE & TECHNOLOGY FOR CIVIL SERVICES PT & MAINS, STATE PSC, CDS, NDA, SSC, & OTHER UPSC EXAMS 2ND EDITION

Disha Publications

(FREE SAMPLE) GENERAL SCIENCE & TECHNOLOGY FOR CIVIL SERVICES PT & MAINS, STATE PSC, CDS, NDA, SSC, & OTHER UPSC EXAMS 2ND EDITION

Disha Publications The thoroughly Revised & Update 2nd Edition of the book General Science & Technology for Civil Services PT & Mains, State PSC, CDS, NDA, SSC, & other UPSC Exams been designed with special focus on IAS Prelims & Main Exams. The book is prepared as per the trend of questions asked in previous years question papers of various UPSC/ State PSC/ SSC exams. • In nutshell the book consists of complete theory of Physics, Chemistry, Biology and Technology with MCQ Exercise including past questions of various exams. • The book also covers past questions of IAS Mains GS III and various State PSC exams. • The book also covers Technology in the development of India and its future prospects in the field of research. The part deals with Energy, Nuclear Technology, Information Technology, Space research, Communication and Defence. • The book is empowered with a variety of questions (Simple MCQs, Statement Based MCQs, Match the column MCQs, Assertion-Reason MCQs) and thus more than 3800 questions are included in the book. Solutions are also provided in the book. • Past MCQs of last ten year questions of various competitive exams have also been included in the book.

SUSPENSIONS OF COLLOIDAL PARTICLES AND AGGREGATES

Springer This book addresses the properties of particles in colloidal suspensions. It has a focus on particle aggregates and the dependency of their physical behaviour on morphological parameters. For this purpose, relevant theories and methodological tools are reviewed and applied to selected examples. The book is divided into four main chapters. The first of them introduces important measurement techniques for the determination of particle size and interfacial properties in colloidal suspensions. A further chapter is devoted to the physico-chemical properties of colloidal particles—highlighting the interfacial phenomena and the corresponding interactions between particles. The book's central chapter examines the structure-property relations of colloidal aggregates. This comprises concepts to quantify size and structure of aggregates, models and numerical tools for calculating the (light) scattering and hydrodynamic properties of aggregates, and a discussion on van-der-Waals and double layer interactions between aggregates. It is illustrated how such knowledge may significantly enhance the characterisation of colloidal suspensions. The final part of the book refers to the information, ideas and concepts already presented in order to address technical aspects of the preparation of colloidal suspensions—in particular the performance of relevant dispersion techniques and the stability of colloidal suspensions.

GENERAL ORGANIC AND BIOLOGICAL CHEMISTRY

John Wiley & Sons This general, organic, and biochemistry text has been written for students preparing for careers in health-related fields such as nursing, dental hygiene, nutrition, medical technology, and occupational therapy. It is also suited for students majoring in other fields where it is important to have an understanding of the basics of chemistry. Students need have no previous background in chemistry, but should possess basic math skills. The text features numerous helpful problems and learning features.

THE GENERAL SCIENCE COMPENDIUM FOR IAS PRELIMS GENERAL STUDIES PAPER 1 & STATE PSC EXAMS 2ND EDITION

Disha Publications The thoroughly Revised & Updated 2nd Edition of the book "The General Science Compendium" has been prepared with enormous efforts for all IAS aspirants, State PCS and other competitive exams. The book is prepared on the concept "Latest Information - Authentic Data". The book has been divided into 4 parts - Physics (6 Chapters), Chemistry (7 Chapters), Biology (7 Chapters) & Science and Technology (6 Chapters). followed by an exercise with 1300+ Simple MCQs & statement based MCQs. The book captures most of the important questions with explanations of the past years of the IAS Prelim exam, State PSC, NDA and other competitive exams distributed in the various chapters. The book not only covers 100% syllabus but is also covered with Mind Maps, Infographics, Charts, Tables and latest exam pattern MCQs. The emphasis of the book has been on conceptual understanding and better retention which are important from the point of view of the exam.

ISC CHEMISTRY BOOK 2 FOR CLASS -XII

S. Chand Publishing ISC Chemistry Book XII

PHYSICAL CHEMISTRY

Discovery Publishing House The present book is written, to fulfil the requirement, not only of undergraduate students but also of postgraduates. This book provides knowledge for the Entrance Exams for Medical and Engineering Colleges. This book provides simple language clear example, and systematic presentation. The book includes, important principles, equations, theorems and concepts.

FOUNDATION COURSE IN CHEMISTRY WITH CASE STUDY APPROACH FOR JEE/ NEET/ OLYMPIAD CLASS 9 - 5TH EDITION

Disha Publications

OBJECTIVE QUESTION BANK GENERAL SCIENCE

Arihant Publications India limited The General Science section covering Physics, Chemistry, Biology and Computer Science has taken an important dimension in most of the competitive examinations like SSC, CDS, NDA, Assistant Commandant, CPO, UPSC and State Level PSC Exams and those lacking the basic General Science knowledge lag behind others in the long run. The present book will act as an Objective Question Bank for General Science. The book has been prepared keeping in mind the importance of the subject. This book has been divided into four sections namely Physics, Chemistry, Biology and Computer Science, each divided into number of chapters as per the syllabi of General Science section asked in various competitive exams. The Physics section covers Motion, Force & Laws of Motion, Gravitation, Work, Energy & Power, Simple Harmonic Motion, Wave Motion, Light-Ray Optics, Current Electricity & Its Effects, Nuclear Physics, Semiconductor, Communication, etc whereas the Chemistry section has been divided into Atomic Structure, Chemical Reactions, Chemical Bonding, Solutions & Colloids, Energetics & Kinetics, Electrochemistry, Metallurgy, Metals & Their Compounds, Flame & Fuel, Food Chemistry, etc. The Biology section in the book covers Biology & Its Branches, Cell: Structure & Functions, Cell Cycle & Cell Division, Plant Tissues, Animal Nutrition, Plant System, Reproduction in Organisms, Respiratory System, Excretory System, Reproductive System, Genetics, Biotechnology, Animal Husbandry, etc whereas the Computer Awareness section has been divided into Computer Organisation & Memory, Data Representation, Software, Data Communication Networking and Internet & Computer Security. The chapters in the book contain more than 100 tables which will help in better summarization of the important information. Each chapter in the book contains ample number of objective questions ample number of objective questions including questions asked in previous years' exams which have been designed on the lines of questions asked in various competitive examinations. With a collection of more than 5000 highly useful questions, the content covered in the book tries to simplify the complexities of some of the topics so that non-science students feel no difficulty while studying general science. Also hints and solutions to

the difficult questions have been provided in the book. As the book thoroughly covers the General Science section asked in a number of competitive examinations, it for sure will work as a preparation booster for various competitive examinations like UPSC & State Level PSCs Examinations, SSC, CDS, NDA, CISF and other general competitive & recruitment examinations.

NEET PREP GUIDE 2022

Arihant Publications India limited "1. NEET Prep Guide is an ultimate guide for the preparation of the medical entrances 2. The book is divided into Three Sections: Physics, Chemistry and Biology 3. Each chapter carries 3 level exercises; Preliminary, Advanced and Previous question 4. For the complete assessment and understanding, 8 Unit Tests are given in every section 5. 5 full length Mock Tests, Solved papers of CBSE AIPMT & NTA NEET for practice 6. More than 10,000 objective questions are also given following Learning Management System (LMS) 7. Every question given in this guide is provided with detailed answers. 8. Free Revision booklet is also attached for the quick revision of theorem, formulae and concepts Keeping in mind, all the needs and problems of NEET Aspirants, here's presenting the newly updated edition of "NEET Prep Guide" serving as an apt study material for the preparation for all three subjects - Physics, Chemistry and Biology. Each chapter is well supported with complete text material along with Practice Questions arranged in two difficulty levels, giving step by step practice. For cumulative and regular practice, 8 Unit Tests are given in each section and 5 full length practice sets are given at the end of the book. More than 10,000 objective questions are also provided following Learning Management System (LMS), in terms of practicing the question gives Complete Practice & Assessment at each step in a scientific manner. Free Revision booklet is also attached for the quick revision of theorems, formulae and concepts before writing exam. This preparatory guide prepares aspirants to stand out in every screening parameters of the exam. TOC Physics - Physics and Measurement, Kinematics, Laws of Motion, Work, Energy and Power, Rotational Motion, Gravitation, Properties of Solids, Mechanical Properties of Fluids, Thermal Properties of Matter, Thermodynamics, Kinetic Theory of Gases, Simple Harmonic Motion, Wave Motion, Electrostatics, Capacitance, Current Electricity, Magnetic Effects of Current, Magnetism, EM Induction and AC, electromagnetic Waves, Ray Optics, Wave Optics, Dual Nature of Matter and Radiation, Atoms, Nuclear Physics and Radioactivity, Electronic Devices, Communication Systems. Chemistry- Matter and Laws of Chemical Combinations, Chemical Equations and Stoichiometry, States of Matter: Gaseous and Liquid States, States of Matter: Solid State, Atomic Structure, Radioactivity and Nuclear chemistry, Chemical Bonding and Molecular Structure, Chemical Thermodynamics, Solutions, Chemical Equilibrium, Ionic Equilibrium, Redox Reactions, Electrochemistry, Chemical Kinetics, Adsorption, Colloidal State, Periodic Classification and Periodic Properties, Principles and Process of Metallurgy, Hydrogen, s-, p-, d- & f-Block Elements, Coordination Compounds, Environmental Chemistry, Purification of Organic Compounds, Some Basic Principles of Organic Chemistry, Hydrocarbons, Organic Compounds Containing Halogens, Alcohols, Phenols and Ether, Aldehyde, Ketones and Carboxylic Acid, Organic Compounds

Containing Nitrogen, Polymers, Biomolecules, Chemistry in Everyday Life. Biology- The Living World, Biological Classification, Plant Kingdom, Animal Kingdom, Morphology of Flowering Plants, Anatomy of Flowering Plants, Structural Organization in Animals, Cell, Biomolecules, Cell Cycle and Cell Division, Transport in Plants, Mineral Nutrition, Photosynthesis in Higher Plants, Cellular Respiration, Plant Growth and Development, Digestion and Absorption, Breathing and Exchange of Gases, Body Fluids and Circulation, Excretion in Animals, Locomotion and Movement, Neural Control and Coordination, Endocrine System, Reproduction in Organisms, Social Reproduction in Flowering Plants, Human Reproduction, Reproductive Health, Heredity and Variation, Molecular Basis of Inheritance, Evolution, Human Health and Diseases, Strategies for Enhancement in Food Production, Microbes in Human Welfare, Biotechnology, Biotechnology and Its Application, Organisms and Population, Ecosystem, Biodiversity and Its Conservation, Environmental Issues."

LONGMAN SCIENCE CHEMISTRY 9

Pearson Education India

INTRODUCTION TO BIO PHYSICS

S. Chand Publishing Biophysics is an intradisciplinary as well as an emerging subject in the field of Biological Science in the recent years. It is a hybrid science which deals with Physics, Chemistry and Biology.

LIVING SCIENCE CHEMISTRY 9

Ratna Sagar Living Science for Classes 9 and 10 have been prepared on the basis of the syllabus developed by the NCERT and adopted by the CBSE and many other State Education Boards. Best of both, the traditional courses and the recent innovations in the field of basic Chemistry have been incorporated. The books contain a large number of worked-out examples, illustrations, illustrative questions, numerical problems, figures, tables and graphs.

OSWAAL TOPPER'S HANDBOOK + JEE MAIN MOCK TEST 15 SAMPLE PAPERS (SET OF 4 BOOKS) PHYSICS CHEMISTRY MATHS (FOR 2023 EXAM)

Oswaal Books and Learning Private Limited Latest JEE (Main) Two Question Paper 2022- Fully solved Previous Years' (2019-2022) Exam Questions to facilitate focused study Mind Map: A single page snapshot of the entire chapter for longer retention Mnemonics to boost memory and confidence 15 Sample Question Papers based on the latest pattern with detailed explanations Oswaal QR Codes: Easy to scan QR codes for online content Subject-wise - Appendix available in QR format. Tips to crack JEE (Main) Trend Analysis: Chapter-wise

OSWAAL CHEMISTRY TOPPER'S HANDBOOK + NEET (UG) 16 YEARS' SOLVED PAPERS PHYSICS, CHEMISTRY & BIOLOGY (SET OF 2 BOOKS)

experimental techniques and solved problems.

COMPREHENSIVE GUIDE TO CDS EXAM 2ND EDITION

Disha Publications

THE SCIENCE ORBIT CHEMISTRY 8

Saraswati House Pvt Ltd Well graded and structured, the series provides a body of knowledge, methods, and techniques that characterize science and technology so that students use these efficiently. A conscious attempt has been meeting to help students experience science in varied and interesting ways while actively involving them in their own learning.

HANDBOOK OF ENOLOGY, VOLUME 2

THE CHEMISTRY OF WINE STABILIZATION AND TREATMENTS

John Wiley & Sons As an applied science, Enology is a collection of knowledge from the fundamental sciences including chemistry, biochemistry, microbiology, bioengineering, psychophysics, cognitive psychology, etc., and nourished by empirical observations. The approach used in the Handbook of Enology is thus the same. It aims to provide practitioners, winemakers, technicians and enology students with foundational knowledge and the most recent research results. This knowledge can be used to contribute to a better definition of the quality of grapes and wine, a greater understanding of chemical and microbiological parameters, with the aim of ensuring satisfactory fermentations and predicting the evolution of wines, and better mastery of wine stabilization processes. As a result, the purpose of this publication is to guide readers in their thought processes with a view to preserving and optimizing the identity and taste of wine and its aging potential. This third English edition of The Handbook of Enology, is an enhanced translation from the 7th French 2017 edition, and is published as a two-volume set describing aspects of winemaking using a detailed, scientific approach. The authors, who are highly-respected enologists, examine winemaking processes, theorizing what constitutes a perfect technique and the proper combination of components necessary to produce a quality vintage. They also illustrate methodologies of common problems, revealing the mechanism behind the disorder, thus enabling a diagnosis and solution. Volume 2: The Chemistry of Wine and Stabilization and Treatments looks at the wine itself in two parts. Part One analyzes the chemical makeup of wine, including organic acids, alcoholic, volatile and phenolic compounds, carbohydrates, and aromas. Part Two describes the procedures necessary to achieve a perfect wine: the clarification processes of fining, filtering and centrifuging, stabilization, and aging. Coverage includes: Wine chemistry; Organic acids; Alcohols and other volatile products; Carbohydrates; Dry extract and mineral matter; Nitrogen substances; Phenolic compounds; The aroma of grape varieties; The chemical nature, origin and consequences of the main organoleptic defects; Stabilization and treatment of wines; The chemical nature, origin and consequences of the main organoleptic defects; The concept of clarity and colloidal phenomena; Clarification and stabilization

treatments; Clarification of wines by filtration and centrifugation; The stabilization of wines by physical processes; The aging of wines in vats and in barrels and aging phenomena. The target audience includes advanced viticulture and enology students, professors and researchers, and practicing grape growers and vintners.

FOAMS AND EMULSIONS

Springer Science & Business Media A general and introductory survey of foams, emulsions and cellular materials. Foams and emulsions are illustrations of some fundamental concepts in statistical thermodynamics, rheology, elasticity and the physics and chemistry of divided media and interfaces. They also give rise to some of the most beautiful geometrical shapes and tilings, ordered or disordered. The chapters are grouped into sections having fairly loose boundaries. Each chapter is intelligible alone, but cross referencing means that the few concepts that may not be familiar to the reader can be found in other chapters in the book. Audience: Research students, researchers and teachers in physics, physical chemistry, materials science, mechanical engineering and geometry.

THE SCIENCE ORBIT CHEMISTRY 08

New Saraswati House India Pvt Ltd The series provides a body of knowledge, methods, and techniques that characterize science and technology so that students use these efficiently. A conscious attempt has been meeting to help students experience science in varied and interesting ways while actively involving them in their own learning.

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New Saraswati House India Pvt Ltd LK-Science-HB-09-R

STUDY GUIDE CENTRAL HINDU SCHOOL ENTRANCE EXAM 2022 FOR CLASS 11

Arihant Publications India limited 1. Central Hindu School Entrance Test is a complete test guide. 2. Covers entire syllabus for class 11th. 3. Topically divided into 5 sections to provide better understanding. 4. Solved papers and Model papers are given for thorough practice. The book 'CHS SET' has been carefully designed to cater the needs of students of class 11th. Encrypted with Chapterwise notes and previous years' questions, this book divides the entire syllabus into 5 major subjects. Each chapter has been well explained in details to ease the understanding of the concepts. Besides the theory part, this book focuses on practice part as well with latest solved papers to get the insights of the exam pattern, and two model papers for self-assessment. Housed with exam relevant content, this study guide boosts the preparation level and raises the confidence of a student to score better in their exam. TOC Model Solved Paper 2021 (Arts, & Commerce Group), Model Solved Papers 2021 (Maths & Bio Group), Solved paper 2019 (Art & Commerce Group), Solved Papers 2019 (Maths Group), Solved paper 2019 (Bio Group), English, Hindi, Mathematics, Physics, Chemistry, Biology, General Studies.

OBJECTIVE CHEMISTRY FOR IIT ENTRANCE

New Age International The Book Enables Students To Thoroughly Master Pre-College Chemistry And Helps Them To Prepare For Various Entrance (Screening) Tests With Skill And Confidence. The Book Thoroughly Explains The Following: * Physical Chemistry, With Detailed Concepts And Numerical Problems * Organic Chemistry, With More Chemical Equations And Conversion * Inorganic Chemistry, With Theory And Examples In Addition To A Well-Explained Theory, The Book Includes, Well Categorized, Classified And Sub-Classified Questions (With Authentic Answers And Explanations) On The Basis Of * Memory Based Questions (Sequential Questions, To Help Step-By-Step Learning And Understanding The Concepts In Each Chapter) * Logic Based Questions (Numerical Objective Problems & Questions Requiring Tricks) * Questions From Competitive Exams (Covering Objective Questions Up To Year 2002 Of All Indian Engineering/Medical Examinations In Chronological Order).

10 IN ONE STUDY PACKAGE FOR CBSE SCIENCE CLASS 9 WITH 3 SAMPLE PAPERS

Disha Publications 10 in ONE CBSE Study Package Science (set of 3 books - PCB) class 9 with 3 Sample Papers has 10 key ingredients that will help you achieve success. 1. Chapter Utility Score(CUS) 2. Exhaustive Theory with Concept Maps 3. Text Book exercises 4. VSA, SA & LA Questions 5. Past year questions including 2017-18 Solved papers 6. HOTS/ Value based/ Exemplar 7. Past NTSE + Exemplar MCQ's 8. 15 Chapter Tests with Solutions 9. Important Formulas, Terms & Definitions 10. 3 Sample Papers with detailed solutions

10 IN ONE STUDY PACKAGE FOR CBSE SCIENCE CLASS 9 WITH OBJECTIVE QUESTIONS 2ND EDITION

Disha Publications 10 in ONE CBSE Study Package Science Class 9 with Objective Questions has 10 key ingredients that will help you achieve success. 1. Chapter Utility Score(CUS) 2. Exhaustive Theory with Concept Maps 3. Text Book exercises 4. VSA, SA & LA Questions 5. Past year questions (Term I & II) 6. HOTS/ Value based/ Exemplar 7. Past NTSE + Exemplar MCQ's 8. 15 Chapter Tests with Solutions 9. Important Formulas, Terms & Definitions 10. 3 Sample Papers provided Online on latest pattern with detailed solutions

LAB MANUAL SCIENCE CLASS 09

New Saraswati House India Pvt Ltd These Lab Manuals provide complete information on all the experiments listed in the latest CBSE syllabus. The various objectives, materials required, procedures, inferences, etc., have been given in a step-by-step manner. Carefully framed MCQs and short answers type questions given at the end of the experiments help the students prepare for viva voce.

PROCEEDINGS

PROCEEDINGS OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS

GENERAL SCIENCE & TECHNOLOGY COMPENDIUM FOR IAS PRELIMS GENERAL STUDIES PAPER 1 & STATE PSC EXAMS 3RD EDITION

Disha Publications

DELHI POLICE HEAD CONSTABLE EXAM 2020 GUIDE

Disha Publications

COMPREHENSIVE PRACTICAL SCIENCE IX

Laxmi Publications

GUIDE TO RRB JUNIOR ENGINEER STAGE 1 ONLINE EXAM 3RD EDITION

Disha Publications The thoroughly Revised & Updated 3rd Edition of Objective Chemistry Chapter-wise MCQ for JEE Main/ BITSAT/ NEET/ AIIMS is a collection of carefully selected MCQ's for Engineering and Medical entrance exams. The book follows the pattern and flow of class 11 and 12 syllabus as prescribed by NCERT. The unique feature of the new edition is the inclusion of new exam-centric questions and marking of questions into Critical Thinking; Toughnut & Tricky. The book contains 'Chapter-wise MCQs' which covers all the important concepts and applications required to crack the mentioned exams. The book contains 31 chapters covering a total of around 3000 MCQs with solutions. Also covers a chapter on Analytical Chemistry. The solutions to the questions is provided immediately after the chapter. The solutions have been prepared in a manner that a student can easily understand them. This is an ideal book to practice and revise the complete syllabus of the mentioned exams. The book will help to give finishing touches to your preparation of each chapter.

GUIDE TO RRB JUNIOR ENGINEER STAGE II CIVIL & ALLIED ENGINEERING 3RD EDITION

Disha Publications Guide to RRB Junior Engineer Stage II Civil & Allied Engineering 3rd Edition covers all the 5 sections including the Technical Ability Section in detail. • The book covers the complete syllabus as prescribed in the latest notification. • The book is divided into 5 sections which are further divided into chapters which contains theory explaining the concepts involved followed by Practice Exercises. • The Technical section is divided into 17 chapters. • The book provides the Past 2015 & 2014 Solved questions at the end of each section. • The book is also very useful for the Section Engineering Exam.

GUIDE TO RRB JUNIOR ENGINEER STAGE II ELECTRICAL & ALLIED ENGINEERING 3RD EDITION

Disha Publications Guide to RRB Junior Engineer Stage II Electrical & Allied Engineering 3rd Edition covers all the 5 sections including the Technical Ability Section in detail. • The book covers the complete syllabus as prescribed in the latest

notification. • The book is divided into 5 sections which are further divided into chapters which contains theory explaining the concepts involved followed by Practice Exercises. • The Technical section is divided into 11 chapters. • The book provides the Past 2015 & 2014 Solved questions at the end of each section. • The book is also very useful for the Section Engineering Exam.

GUIDE TO RRB JUNIOR ENGINEER STAGE II MECHANICAL & ALLIED ENGINEERING 3RD EDITION

Disha Publications Guide to RRB Junior Engineer Stage II Civil & Allied Engineering 3rd Edition covers all the 5 sections including the Technical Ability Section in detail. • The book covers the complete syllabus as prescribed in the latest notification. • The book is divided into 5 sections which are further divided into chapters which contains theory explaining the concepts involved followed by Practice Exercises. • The Technical section is divided into 13 chapters. • The book provides the Past 2015 & 2014 Solved questions at the end of each section. • The book is also very useful for the Section Engineering Exam.

LAKHMIR SINGH'S SCIENCE CHEMISTRY FOR ICSE CLASS 8

S. Chand Publishing Series of books for class 1 to 8 for ICSE schools. The main goal that this series aspires to accomplish is to help students understand difficult scientific concepts in a simple manner and in an easy language.