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LABORATORY MANUAL

Mathematics

CBSE Class X



As Per **Latest Syllabus**



ACTIVITIES
PROJECTS
VIVA-VOCE

Cbse Class 10 2015 Lab Manual

Er. Meera Goyal



Cbse Class 10 2015 Lab Manual:

Lab Manual Science Class 10 Neena Sinha, R.Rangarajan, Rajesh Kumar, 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

Core Science Lab Manual with Practical Skills for Class X V. K. Sally, Chhaya Srivastava, Goyal Brothers Prakashan, 2019-01-17 Goyal Brothers Prakashan Oswaal NTA UGC NET/JRF/SET Paper-1 (Compulsory) | 15 Year's Solved Papers | Chapterwise | Topicwise | Teaching & Research Aptitude | 2015-2023 | For 2024 Exam Oswaal Editorial Board, 2024-02-03 Oswaal NTA UGC NET JRF SET Paper 1 Compulsory 15 Year s Solved Papers Chapterwise Topicwise Teaching Research Aptitude 2015 2023 For 2024 Exam **Oswaal NTA UGC NET/JRF/SET Paper-1 (Compulsory) | 15 Year's Solved Papers Teaching & Research Aptitude | Yearwise | 2015-2023 | For 2024 Exam** Oswaal Editorial Board, 2024-02-03 Oswaal NTA UGC NET JRF SET Paper 1 Compulsory 15 Year s Solved Papers Teaching Research Aptitude Yearwise 2015 2023 For 2024 Exam **Oswaal NTA UGC NET/JRF/SET Paper-1 (Compulsory) | 15 Year's Mock Test Papers Teaching & Research Aptitude | Yearwise | 2015-2023 | For 2024 Exam** Oswaal Editorial Board, 2024-02-03 Oswaal NTA UGC NET JRF SET Paper 1 Compulsory 15 Year s Mock Test Papers Teaching Research Aptitude Yearwise 2015 2023 For 2024 Exam **Oswaal NTA UGC NET Paper-1 15 Solved Papers General Aptitude | Year-wise 2015-2023 + 15 Mock Test Papers Teaching & Research Aptitude General Paper-1 (Compulsory) (Set of 2 Books) | For 2024 Exam** Oswaal Editorial Board, 2024-02-24 Description of the product 100% Updated With December 2023 UGC NET Paper 1 Question Paper Fully Solved Extensive Practice With 750 Questions and Two Sample Question Papers Concept Clarity Learn Key Concepts through Detailed Explanations Smart Mind Maps 100% Exam Readiness With the Latest Previous Years Trend Analysis 2017 2023 Valuable Exam Insights With Tips Tricks to ace UGC NET in 1st attempt and subject wise cut offs 2021 2023 *Oswaal NTA UGC NET/ JRF/ SET 15 Years' Solved Papers | (2009-2023) Chapter-Wise & Topic-Wise | Teaching & Research Aptitude General Paper-1 + 15 Mock Test Papers | Teaching and Research Aptitude General Paper-1 (Compulsory) (Set of 2 Books) | For 2024 Exam* Oswaal Editorial Board, 2024-02-24 Description of the product 100% Updated With December 2023 UGC NET Paper 1 Question Paper Fully Solved Extensive Practice With 750 Questions and Two Sample Question Papers Concept Clarity Learn Key Concepts through Detailed Explanations Smart Mind Maps 100% Exam Readiness With the Latest Previous Years Trend Analysis 2017 2023 Valuable Exam Insights With Tips Tricks to ace UGC NET in 1st attempt and subject wise cut offs 2021 2023 **The Education Quarterly** ,1985 *Data India* ,1978 Government Reports Announcements & Index ,1989 *Who's Who in Science and Engineering 2008-2009* Who's Who Marquis, Marquis Who's Who, 2007-12 Complete Science Laboratory Manual CBSE For Class 10 Education Experts, 2019-10 *Arts & Humanities Citation Index* ,1980 *Complete*

Mathematics Laboratory Manual CBSE For Class 10 Education Experts, 2019-10 **Laboratory Manual for Science** □ 10

A. K. Raj, Laboratory Manual for Science is a series of five books for classes 6 to 10. These are complimentary to the Science textbooks of the respective classes. The manuals cover a wide range of age appropriate experiments that give hands on experience to the students. The experiments help students verify scientific truths and principles and at the same time expose them to the basic tools and techniques used in scientific investigations. Our manuals aim not only to help students better comprehend the scientific concepts taught in their textbooks but also to ignite a scientific quest in their young inquisitive minds. *Lab. Manual For Science & Tech. Class (X) Cbse (2nd Edition)* Rishi, Menon, 2007-01-01 *Complete Science*

Laboratory Manual CBSE For Class 9 Education Experts, 2019-10 **CBSE Laboratory Manual Mathematics Class 9**

Divya Malik, 2022-12-13. Once William Paul Thurston said Mathematics is not about numbers, equations, computations or algorithms; it is about Understanding. It is a constant effort of NCERT that it puts on its textbooks to promote clearer understanding of concepts in every student. As important as theoretical study is, Practical study is also essential to prove theories into realities. The freshly updated edition of LABORATORY MANUAL Mathematics for class IX has been designed as a complete package to understand all the relevant mathematical experiments in a simple, lucid and interactive manner. Strictly based on CBSE guidelines, each activity includes theory to give deep insights into each concept, formula, term, definition etc. Viva Voce questions, Notes, Suggested Activities, Applications etc. are accumulated to make concepts clearer in accordance with the curriculum. Along with the Activities, all the projects listed in NCERT Lab Manual have also been properly covered. This book serves as a step by step guide for conducting experiments in such a way that students will not need to refer to any other book for explanations of the concepts. An all inclusive guidance book for Maths laboratory activities. Coverage of each activity in a simple and lucid manner. Detailed and Step by Step procedure for each activity. Accurate Figures, Illustrations and Diagrams in each activity. Detailed Demonstration and Calculations with each activity. Notes, Applications etc. with each activity. TABLE OF CONTENT: Activity 1-34. List of Projects To Develop: Heron's formula for area of a triangle, story of Chronology of Indian Mathematicians with their contributions, Development of formula for the area of a cyclic quadrilateral, With rectangle of given perimeter finding the one with a maximum area and with rectangle of given area finding the ones with least perimeter, Knowledge and classification of solid figures with respect to surface areas and volumes, Generation of Pythagorean triplets, Magic squares with cuboid of given surface area finding the one with maximum volume and with cuboid of given volumes finding one with least surface area, Mathematical designs and patterns, Application of algebra in day to day life. Lab Manual Science Class 09 Neena Sinha, R. Rangarajan, Rajesh Kumar, 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 answer type questions given at the end of the experiments help the students prepare for viva voce. *Practical/Laboratory Manual*

Chemistry Class - XI Er. Meera Goyal, 2021-05-29

1 Basic Laboratory Techniques

- 1 To cut a glass tube or glass rod
- 2 To bend the glass rod at an angle
- 3 To draw a glass jet from a glass tube
- 4 To bore a cork and fit a glass tube into it

Viva Voce

2 Characterisation and Purification of Chemical Substances

- 1 To determine the melting point of the given unknown organic compound and its identification simple laboratory technique
- Viva Voce**
- 2 To determine the boiling point of a given liquid when available in small quantity simple laboratory method
- Viva Voce**
- 3 To prepare crystals of pure potash alum $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$ from the given impure sample
- 4 To prepare the pure crystals of copper sulphate from the given crude sample
- 5 To prepare pure crystals of benzoic acid from a given impure sample

Viva Voce

3 Measurement of pH Values

- 1 To determine the pH value of vegetable juices fruit juices tap water and washing soda by using universal pH paper
- 2 To determine and compare the pH values of solutions of strong acid HCl and weak acid CH_3COOH of same concentration
- 3 To study the pH change in the titration of strong base Vs strong acid by using universal indicator paper
- 4 To study the pH change by common ion CH_3COO^- ion in case of weak acid CH_3COOH
- 5 To determine the change in pH value of weak base NH_4OH in presence of a common ion NH_4^+

Viva Voce

4 Chemical Equilibrium

- 1 To study the shift in equilibrium between ferric ions and thiocyanate ions by changing the concentrations of either of the ions
- 2 To study the shift in equilibrium between $Co(H_2O)_6^{2+}$ and Cl^- ions by changing the concentrations of either of the ions

Viva Voce

5 Quantitative Analysis

- 1 To prepare M 10 oxalic acid solution by direct weighing method
- 2 To prepare M 10 solution of sodium carbonate by direct weighing method
- 3 To determine the strength of given solution of sodium hydroxide by titrating it against N 10 or M 20 solution of oxalic acid
- 4 To determine the strength of a given solution of hydrochloric acid by titrating it against a standard N 10 or M 20 sodium carbonate solution

Viva Voce

6 Qualitative Analysis

Analysis of Anions Analysis of Cations

Viva Voce

7 Detection of Elements in Organic Compounds

- 1 To detect the presence of nitrogen sulphur and halogens in a given organic compound by Lassaigne's test
- 2 To detect the presence of nitrogen sulphur and halogens in the given organic compound sample number by Lassaigne's test

Viva Voce

INVESTIGATORY PROJECTS

1 Checking of Bacterial Contamination in Water

- 1 To check the bacterial contamination in drinking water by testing sulphide ions

Viva Voce

2 Methods of Water Purification

- 1 To purify water from suspended impurities by using sedimentation
- 2 To purify water by boiling
- 3 To purify water by distillation method
- 4 To purify water by reverse osmosis technique
- 5 To purify water by GAC method
- 6 To purify water by bleach treatment
- 7 To purify water by oxidising agent
- 8 To purify water by ozone treatment method

Viva Voce

3 Water Analysis

- 1 To test the hardness of different water samples

Viva Voce

4 Foaming Capacity of Various Soaps

- 1 To compare the foaming capacity of different washing soaps
- 2 To study the effect of addition of sodium carbonate on foaming capacity of washing soap

Viva Voce

5 Tea Analysis

- 1 To study the acidity of different samples of tea leaves tea by using pH paper

Viva Voce

6 Analysis of Fruits and Vegetable Juices

- 1 To analysis the fruit and vegetable juices for the constituent present in them

Viva Voce

7 Rate of Evaporation

- 1 To study the rate of evaporation of different liquids

Viva Voce

8 Effect of Acids and Bases on Tensile Strength of Fibres

- 1 To compare

the tensile strength of natural fibres and synthetic fibres 2 To study the effect of acids and bases on tensile strength of different fibres Viva Voce

Cbse Class 10 2015 Lab Manual: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Cbse Class 10 2015 Lab Manual : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Cbse Class 10 2015 Lab Manual : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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