

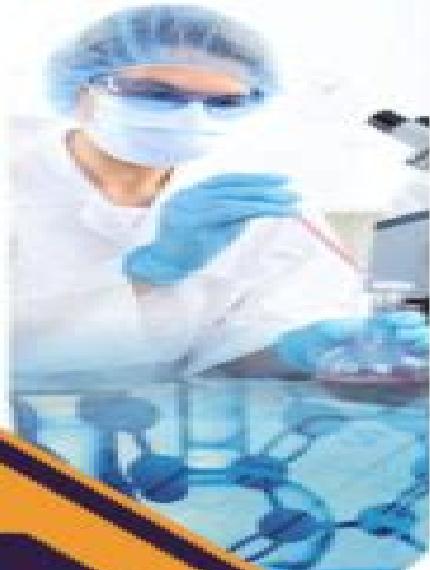
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**Er. Meera Goyal**

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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

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formulas and theorems The author of this class 10 Mathematics Lab Manual is Mr Mohit Tripathi who has presented the series of integrated information which is strictly based on the latest CBSE Pattern and other State Boards curricula as well The transdisciplinary approach of this Lab Manual is to foster the inquisitive mindset critical thinking and Mathematical aptitude amongst the early learners The Class 10 Mathematics Lab Manual also includes all the projects and activities as per the latest NCERT curriculum The theories mentioned with each of the activities in the Lab Manual gives a complete understanding of each concept and formulas This class 10 Mathematics Lab Manual provides the step by step procedure observations calculations results and Viva Voce questions in the idol format that is followed in the Laboratory The basic purpose of this lab manual not only eases the approach of the Laboratory courses but also to provide the students appropriate guidance required for carrying out the Experiments in math laboratories All the Experiments in this manual have been given to conform to a systematic format that includes Theory Material Required Procedure Observation Result Precautions Viva Voce and Suggested Activities The Viva Voce questions in the Manual are followed by the answers which will be useful for the CBSE and state board students This Class 10 Mathematics Lab Manual comes with practical lessons followed by Lab activity and attached Notebook for jotting down all the essential information The aim of this Mathematics Lab Manual is to prepare the Class 10 students using pedagogically enhanced content of the lab manual and with a compact knowledge base for improving their analytical experimental skills and learning abilities

[Lab.Manual For Science & Tech. Class \(Ix\) Cbse \(2nd Edition\)](#) Rishi, Menon, 2007-01-01 [Science Lab Manual](#) Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual

**Biology Lab Manual Class XII As Per the Latest CBSE Syllabus and Other State Board Following the Curriculum of CBSE.** Edugorilla Prep Experts, 2022-07-05 The biology Lab Manual is prepared to provide the students with in depth knowledge about all the living elements in the universe through various experiments This complete lab activity book is written by Dr Priyanka Gupta which strictly follows the latest guidelines of CBSE and it includes the whole NCERT and State Board curriculum All the experiments in this Lab Manual have been given in a simple lucid and interactive manner The theory given with each experiment gives complete knowledge of each term concept and definition in order to provide a compact knowledge to the students at one place Viva voce questions are given with each experiment to test students understanding of related experiments All the lab based experiments have well labeled diagrams which clearly demonstrate the details of the apparatus that are used the correct way of handling laboratory apparatus and perform the experiments methodically The basic purpose of this biology Lab Manual is to provide the students with appropriate guidance so that they can easily understand carry out and document the experiments in the Science Laboratory The Lab Manual comes with practical lessons followed by Lab experiments after each chapter attached notebook available for jotting down all the essential information The aim of this CBSE pattern based biology Lab Manual is to help class 12 students to prepare and understand the complex Science concepts through experimental approach by utilizing pedagogically

enhanced content of the Lab Manual and with a compact knowledge base for improving their analytical experimental skills and learning abilities *Laboratory Manual for Science* 9 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 *Chemistry Lab Manual Class XI | Follows the Latest CBSE Syllabus and Other State Board Following the CBSE Curriculam*. Edugorilla Prep Experts,2022-07-05 Theories are incomplete without experimentation So in order to enhance the practical skills of students the CBSE conducts the practical exams for class 11 chemistry along with theoretical exams to test the scientific aptitude of students CBSE Class 11th chemistry Lab Manual has been prepared strictly according to CBSE guidelines which follows the NCERT and other state board curriculum All the experiments in this Lab Manual have been given in a simple lucid and interactive manner The theory given with each experiment gives complete knowledge of each term concept and definition in order to provide a compact knowledge to the students at one place Viva Voce questions are given with each experiment to test students understanding of related experiments Mr Kaushalesh Dwivedi is the author of this complete lab activity book for class 11 chemistry All the lab based experiments have well labeled diagrams which clearly demonstrate the details of the apparatus that are used the correct way of handling Laboratory apparatus and perform the experiments methodically The basic purpose of this Lab Manual is to provide the students with appropriate guidance so that they can easily understand carry out and document the experiments in the Science Laboratory The Lab Manual comes with practical lessons followed by lab experiments after each chapter projects and Notebook for jotting down all the essential information this develops a better understanding about the concept behind each class 11 chemistry theory there is an experiment which brings authentic and easy to retain conclusions through its observations and which is verified on a real time basis The aim of this Science Lab Manual is to help class 11 students to prepare and understand the complex chemistry concepts through experimental approach by utilizing pedagogically enhanced content of the Lab Manual and with a compact knowledge base for improving their analytical experimental skills and learning abilities **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  $K_2SO_4 Al_2 SO_4 3 24H_2O$  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  $\text{CH}_3\text{COOH}$  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  $\text{CH}_3\text{COO}^-$  ion in case of weak acid  $\text{CH}_3\text{COOH}$  5 To determine the change in pH value of weak base  $\text{NH}_4\text{OH}$  in presence of a common ion  $\text{NH}_4^+$  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  $\text{Co}^{2+}$  and  $\text{Cl}^-$  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 analyse 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

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