

Cbse Class 12 Biology Practical Lab Manual

Cbse Class 12 Biology Practical Lab Manual CBSE Class 12 Biology Practical Lab Manual Your Guide to Mastering Practical Skills The CBSE Class 12 Biology Practical Lab Manual is an essential resource for students preparing for their board examinations It provides a comprehensive guide to performing various experiments and projects covering all the practical skills required for the syllabus The manual aims to enhance student understanding of theoretical concepts through hands on experience promoting active learning and critical thinking CBSE Class 12 Biology Practical Lab Manual Experiments Projects Practical Skills Board Examinations Active Learning Critical Thinking The CBSE Class 12 Biology Practical Lab Manual serves as a vital tool for students in their preparation for the board examinations It covers a wide range of practical skills including specimen identification dissection microscopy and experimental procedures The manual guides students through each experiment providing detailed instructions safety protocols and analysis techniques Additionally it offers tips for effective data collection interpretation and presentation crucial for success in the practical examination Analysis of Current Trends The field of biology is constantly evolving with new discoveries and advancements shaping the landscape The CBSE Class 12 Biology Practical Lab Manual reflects these trends by incorporating contemporary techniques and relevant experiments Focus on Interdisciplinary Approaches The manual emphasizes the interdisciplinary nature of biology integrating concepts from other subjects like chemistry physics and mathematics This approach allows students to develop a holistic understanding of biological processes Increased Emphasis on Biotechnology and Genomics Recognizing the growing significance of biotechnology and genomics in modern biology the manual includes experiments that demonstrate the application of these technologies in realworld scenarios Integration of Technology The manual encourages the use of digital tools and online resources for data analysis research and visualization This helps students develop essential skills for navigating the digital world of scientific information 2 Discussion of Ethical Considerations The study of biology often involves working with living organisms raising critical ethical considerations that students must be aware of The CBSE Class 12 Biology Practical Lab Manual addresses ethical issues in a transparent and informative manner Animal Welfare The manual emphasizes ethical practices when handling animals promoting humane

treatment and minimizing any potential harm It encourages students to consider the welfare of animals used in experiments and to find alternative methods wherever possible Respect for Human Subjects The manual highlights the importance of informed consent and confidentiality when conducting experiments involving human subjects It stresses the need for ethical research practices that safeguard the rights and wellbeing of participants Biotechnology and Gene Editing The manual provides a nuanced discussion on the ethical implications of emerging technologies such as genetic engineering and gene editing It prompts students to critically evaluate the potential benefits and risks associated with these technologies Detailed Breakdown of the Manuals Content The CBSE Class 12 Biology Practical Lab Manual typically encompasses the following sections Specimen Identification This section focuses on identifying various plant and animal specimens including their morphological characteristics classification and ecological significance Dissection The manual provides stepbystep guides for dissecting common biological specimens such as frogs earthworms and flowers Students learn about the anatomy and physiology of these organisms through hands on experience Microscopy This section covers techniques for preparing and observing microscopic specimens including cells tissues and microorganisms Students learn about the different types of microscopes their functionalities and their applications in biological research Experimental Procedures The manual includes a variety of experiments designed to investigate fundamental biological processes and concepts These experiments cover topics such as photosynthesis respiration enzyme activity genetics and ecology Data Analysis and Interpretation The manual provides guidance on collecting analyzing and interpreting experimental data Students learn to use statistical methods graphs and tables to effectively communicate their findings Project Work The manual encourages students to undertake independent research projects on topics of interest This section provides guidelines for selecting a project topic conducting 3 research and writing a project report Safety Guidelines The manual emphasizes the importance of safety in the laboratory environment It outlines specific safety protocols for handling chemicals equipment and biological specimens Benefits of Using the CBSE Class 12 Biology Practical Lab Manual Enhanced Understanding The manual provides a practical approach to learning biology allowing students to apply theoretical concepts in realworld scenarios Development of Practical Skills Through hands on experiments and project work students develop essential practical skills including microscopy dissection and experimental design Improved Critical Thinking The manual encourages students to analyze data draw conclusions and critically evaluate information This fosters a deeper understanding of biological concepts and encourages independent thinking Preparation for Examinations The manual serves as a valuable resource for preparing for the practical examination providing students with a comprehensive

understanding of the required skills and knowledge Increased Engagement The hands on nature of the manual promotes active learning and increases student engagement in biology Conclusion The CBSE Class 12 Biology Practical Lab Manual is an invaluable resource for students aspiring to excel in their practical examinations and gain a deeper understanding of biology It provides a comprehensive guide to conducting experiments analyzing data and developing essential practical skills By embracing the ethical considerations and staying informed about current trends in the field students can utilize this manual to unlock their potential in the exciting world of biology

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an excellent book in accordance with the latest syllabus for class 11 prescribed by cbse ncert and adopted by various state education boards a 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 b characterisation and purification of chemical substances 1 to determine the melting point of the given unknown organic compound and its identification simple laboratory technique 2 to determine the boiling point of a given liquid when available in small quantity simple laboratory method 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 c 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^+ d 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_2 and Cl^- ions by changing the concentrations of either of the ions e 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 f qualitative analysis 1 analysis of anions 2 analysis of cations g 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 investigatory projects a checking of bacterial contamination in water 1 to check the bacterial contamination in drinking water by testing sulphide ions b 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 c water analysis 1 to test the hardness of different water samples d 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 e tea analysis 1 to study the acidity of different samples of tea leaves tea by using ph paper f analysis of fruits and vegetable juices 1 to analyse the fruit and vegetable juices for the constituent present in them g rate of evaporation 1 to study the rate of evaporation of different liquids h 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 log antilog table

changes in the organization of health services in developing countries have led to district levels assuming more responsibility for the planning delivery and quality of community health care this fully up dated new edition has been produced to help those working in the district laboratory and those responsible for the organization and management of community laboratory services and the training of district laboratory personnel replacing the previous publication medical laboratory manual for tropical countries this book provides an up to date practical bench manual taking a modern approach to the provision of a quality medical laboratory service

clinicians are becoming more aware and concerned about anaerobic bacterial infections as more is learned about these anaerobic bacteria an attempt will be made in this manual to provide the information to perform an evaluation for each individual laboratory concerning the possible addition of the routine culture of anaerobe to their laboratory analysis of body fluids and tissue specimens

basic and practical microbiology lab manual uses clear concise text and outstanding visuals to guide students through exercises that enhance their understanding of microbes students learn about the role these diverse amazing organisms

play in our lives and environment and gain a deeper understanding of the concepts of cultivation identification and control of microbial growth organized into seven modules each featuring several laboratory exercises the manual provides up to date exercises on microbial diversity and ubiquity cultivating and staining cells for microscopy bacterial metabolism identifying unknown bacteria controlling bacterial growth symbiosis immunology and epidemiology the written text engages students through real world examples and practices while easy to follow diagrams and figures help students complete the laboratory exercises with confidence basic and practical microbiology lab manual includes a supplementary online component which offers videos of basic techniques flashcards games and quizzes that prepare students for in class tests designed for introductory courses at the college level the book is ideal for the laboratory component of lecture courses in microbiology for both majors and non majors

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 $\text{K}_2\text{SO}_4 \cdot \text{Al}_2(\text{SO}_4)_3 \cdot 24\text{H}_2\text{O}$ 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 $\text{Co}(\text{H}_2\text{O})_6^{2+}$ and Cl^- ions by changing the concentrations of either of the ions viva voce 5 quantitative analysis 1 to prepare $\text{m } 10$ oxalic acid solution by direct weighing method 2 to prepare $\text{m } 10$ solution of sodium carbonate by direct weighing method 3 to determine the strength of given solution of sodium hydroxide by titrating it against $\text{n } 10$ or $\text{m } 20$ solution of oxalic acid 4 to determine the strength of a given solution of hydrochloric acid by titrating it against a standard $\text{n } 10$ or $\text{m } 20$ 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 o 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 lviva 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

this edited volume discusses major issues in present day science and technology education ste it is divided into three thematic sections philosophical foundations and curriculum development sustainable development technology and society and the learning sciences and 21st century skills section i examines the history and future of ste curriculum development along with specific issues within this dynamic area section ii explores sustainable development in three important aspects economic development social development and environmental protection section iii covers the 21st century skills that are of overarching importance to the success of learners in school and the world of work anchoring each chapter is an assemblage of veteran science and technology education specialists selected from across the world the book s target is a worldwide audience of undergraduate post graduate students and their teachers as well as researchers this book s exploration of the ever increasing advances in ste and its narrative writing style will be of interest to a broad range of readers

places emphasis on the basic principles of diagnostic microbiology for students preparing to enter the allied health professions this laboratory manual and workbook is aimed at those who are involved in patient care and who wish to learn

how microbiological principles should be applied in the practice of their professions

the system d writing assistant software program provides learners with rapid access to language reference materials

an excellent book in accordance with the latest syllabus for class 11 prescribed by cbse ncert and adopted by various state education boards

introduction

- 1 necessary equipments chemicals and other things for practical work
- 2 general instructions for practical work
- 3 special instructions for practical note book drawing and recording
- 4 special instructions for spotting experiments

- 1 to study and describe the flowering plant belonging to family one from each of the families a solanaceae b fabaceae c liliaceae
- 2 to prepare temporary slide of transverse section of dicot monocot stem dicot monocot root
- 3 to study osmosis by potato osmometer
- 4 to study of plasmolysis in epidermal peel of tradescantial or rhoeo leaf
- 5 to study the distribution of stomata on the upper and lower surface of a leaf
- 6 to compare the rate of transpiration in upper and lower surface of the leaf
- 7 to test the presence of sugars glucose sucrose and starch proteins and fats and to detect their presence in suitable plant and animal materials
- 8 to study the separation of plant pigments by paper chromatography
- 9 to study the rate of respiration in flower buds leaf tissue and germinating seeds
- 10a to test presence of urea in urine
- 10b to test presence of sugar in urine
- 10c to detect presence of albumin in urine
- 10d to test urine for presence of bile salt

spotting

- 1 study of compound microscope
- 2 to study the plant specimen and identification with reasons bacteria oscillatoria spirogyra rhizopus mushroom yeast liverwort moss fern pine one monocotyledonous plant one dicotyledonous plant and one lichen
- 3 study of animal specimens

- 1 amoeba
- 2 hydra
- 3 fasciola hepatica liver fluke
- 4 ascaris lumbricoides
- 5 hirudinaria granulosa
- 6 pheretima posthuma
- 7 palaemon
- 8 bombyx mori
- 9 apis indica honeybee
- 10 pila globosa snail
- 11 asterias starfish
- 12 scoliodon dogfish shark
- 13 labeo rohita rohu
- 14 rana tigrina frog
- 15 hemidactylus lizard
- 16 columba livia pigeon
- 17 oryctolagus cuniculus rabbit

- 4a to study the plant tissues palisade cells guard cells parenchyma collenchyma sclerenchyma xylem and phloem through prepared slide
- 4b to study the animal tissue squamous epithelium muscles fibres through prepared slide
- 4c to study mammalian blood smear by temporary permanent slide
- 5 study of mitosis in root tip of onion
- 6 study of different modification in root stem and leaves
- 7 to study and identify different types of inflorescence racemose and cymose
- 8 to study imbibition in seed raisins
- 9 to demonstrate that anaerobic respiration take place in the absence of air
- 10 to study human skeleton and joints
- 11 to study the external features of cockroach with help of model or chart

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