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# LABORATORY MANUAL IN **BIOLOGY**



CLASS  
**XI**

# **Cbse Class 11 Lab Manual Biology**

**Neena Sinha, R Rangarajan, R P  
Manchanda, R K Gupta, Rajesh Kumar**



## **Cbse Class 11 Lab Manual Biology:**

Comprehensive Biology Activities Vol.I XI Dr. J. P. Sharma,2010      *Practical/Laboratory Manual Biology Class XI based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal* Dr. Sunita Bhagia ,Megha Bansal,2020-06-23 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 Orytolagus 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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Class 11 Biology Lab Manual will help students to enhance their practical knowledge and also help them discover the new joy of learning This complete lab activity book is written by Dr Priyanka Gupta which strictly follows the latest guidelines of CBSE and the pattern of 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 compact knowledge to the students at one place Viva Voce questions are given with each experiment to test students understanding of the related experiments All the lab based experiments have well labeled diagrams clearly demonstrating the details of the apparatus that are used the correct way of handling Laboratory apparatus and performing 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 Biology Lab Manual is to help Class 11 students of the various boards to prepare and understand the complex scientific concepts through experimental approach by utilizing pedagogically enhanced content of the Lab Manual for improving their analytical experimental skills and learning abilities Class 11 Biology Lab Manual has been built up to inspire the young minds towards exploring their fascinating and mysterious surroundings

*Lab Manual Biology Class 11* Rajesh Kumar, Lab Manual *NCERT Chemistry Class 11 - [CBSE Board]* Dr. S. C. Rastogi, ,Er. Meera Goyal,2022-10-11 Syllabus Unit I Some Basic Concepts of Chemistry Unit II Structure of Atom Unit III Classification of Elements and Periodicity in Properties Unit IV Chemical Bonding and Molecular Structure Unit V States of Matter Gases and Liquids Unit VI Chemical Thermodynamics Unit VII Equilibrium Unit VIII Redox Reactions Unit IX Hydrogen Unit X s Block Elements Alkali and Alkaline earth metals Group 1 and Group 2 Elements Unit XI Some p Block Elements General Introduction to p Block Elements Unit XII Organic Chemistry Some Basic Principles and Techniques Unit XIII Hydrocarbons Classification of Hydrocarbons Unit XIV Environmental Chemistry Content 1 Some Basic Concepts of Chemistry 2 Structure of Atom 3 Classification of Elements and Periodicity in Properties 4 Chemical Bonding and Molecular Structure 5 States of Matter 6 Thermodynamics 7 Equilibrium 8 Redox Reactions 9 Hydrogen 10 s Block Elements 11 p Block Elements 12 Organic Chemistry Some Basic Principles and Techniques 13 Hydrocarbons 14 Environmental Chemistry I Appendix II Log antilog Table CBSE/NCERT Jeev Vigyan - Biology Class - 11 Dr. Sunita Bhagiya ,Megha Bansal,2023-07-16 1 The Living World 2 Classification of Living Beings 3 Plant Kingdom 4 Animal Kingdom 5 Morphology of Flowering Plants 6 Anatomy of Flowering Plants 7 Structural Organization in Animals 8 Cell Structural and Functional Unit 9 Biomolecules 10 Cell Cycle and Cell Division 11 Transportation in Plants 12 Mineral Nutrition in Plants 13 Photosynthesis in Higher Plants 14 Respiration in Plants 15 Growth and Development in Plants 16 Digestion and Absorption 17 Respiration and Gaseous Exchange 18 Circulation of Body Fluid 19 Excretory Products and their Excretion 20 Locomotion and Movement 21 Nervous Control and Co ordination 22 Chemical Co ordinations and Controlling 22 Latest Model Paper 22 Examinations paper 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

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knowledge base for improving their analytical experimental skills and learning abilities      **Biology 11A Laboratory Manual** Rodney Olsen,2016      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 answers type questions given at the end of the experiments help the students prepare for viva voce      Comprehensive Laboratory Manual in Biology XII Dr. J. P. Sharma,2011-04-01      **Biology Lab Manual** Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual      **Lab Manual Biology Class 12** Rajesh Kumar, Lab Manual      **Principles of Biology** Rongsun Pu,H. Bruce Reid,2013-08-13      **Lab Manual Biology Hard Bound Class 12** Rajesh Kumar, Lab Manual      **Biology Lab Manual for Students** College Board,2001-06      **Principles of Biology Laboratory Manual** Subhash Minocha,2008-07-30      *Principles of Biology I* Nancy Gilbert,Shirley Colvin,2009-04-15      **Introduction Biology Lab Manual 2B Lab Manual University of Davis** University Of U. C. Davis Lab manual,2025-01-17

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