

BIOLOGY

LAB MANUAL



**CLASS
XII**

**A Complete
Lab Activity Book**

- Introduction •**
- Lab Experiments •**
- Viva Voce •**



Class 12 Biology Practical Manual Cbse

Dr. Sunita Bhagia ,Megha Bansal



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A List of Experiments

- 1 Study pollen germination on a slide
- 2 Collect and study soil from at least two different sites and study them for texture moisture content pH and water holding capacity Correlate with the kinds of plants found in them
- 3 Collect water from two different water bodies around you and study them for pH clarity and presence of any living organism
- 4 Study the presence of suspended particulate matter in air at two widely different sites
- 5 Study the plant population density by quadrat method
- 6 Study the plant population frequency by quadrat method
- 7 Prepare a temporary mount of onion root tip to study mitosis
- 8 Study the effect of different temperatures and three different pH on the activity of salivary amylase on starch
- 9 Isolate DNA from available plant material such as spinach green pea seeds papaya etc

B Study observation of the following

Spotting

- 1 Flowers adapted to pollination by different agencies wind insects birds
- 2 Pollen germination on stigma through a permanent slide
- 3 Identification of stages of gamete development i e T S of testis and T S of ovary through permanent slides from grasshopper mice
- 4 Meiosis in onion bud cell or grasshopper testis through permanent slides
- 5 T S of blastula through permanent slides Mammalian
- 6 Mendelian inheritance using seeds of different colour sizes of any plant
- 7 Prepare pedigree charts of any one of the genetic traits such as rolling of tongue blood groups ear lobes widow s peak and colour blindness
- 8 Controlled pollination emasculation tagging and bagging
- 9 Common disease causing organisms like Ascaris Entamoeba Plasmodium any fungus causing ringworm through permanent slides or specimens Comment on symptoms of diseases that they cause
- 10 Two plants and two animals model virtual images found in xeric conditions Comment upon their morphological adaptations
- 11 Two plants and two animals models virtual images found in aquatic conditions Comment Content

EXPERIMENTS

- 1 To study pollen germination on slide
- 2 To study the texture moisture content pH and waterHolding Capacity of soils collected from different sites
- 3 To collect water from different water bodies and study them for pH Clarity and presence of living organisms
- 4 To study the presence of suspended particulate matter in air at different sites
- 5 To study plant population density by quadrat method
- 6 To study plant population frequency by quadrat method
- 7 To study various stages of mitosis in root tip of onion by preparing slide in acetocarmine
- 8 To study effect of different temperature and three different pH onthe activity of salivary amylase
- 9 To study the isolation of DNA from available plant material such as spinach green pea seeds papaya etc

SPOTTING

- 1 Pollination in flowers
- 2 Pollen germination
- 3 Slides of mammal tissues
- 4 Meiosis cell division
- 5 T S of Blastula
- 6 Mendel s inheritance laws
- 7 Pedigree chart
- 8 Controlled pollination
- 9 Common disease causing organisms
- 10 Xerophytic adaptation
- 11 Aquatic adaptation

Comprehensive Laboratory Manual in Biology XII Dr. J. P. Sharma,2011-04-01 Lab Manual Biology Class 12 Rajesh Kumar, Lab Manual *Indian Book Industry* ,1998 Science Reporter ,1998 *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 Globasa 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 **Publisher's Monthly** ,1995 *EduGorilla's CBSE Class 11th Biology Lab Manual | 2024 Edition | A Well Illustrated, Complete La* , Need an informative and well illustrated Lab Manual CBSE Class 11th Biology Lab Manual is here for you The Lab Manual provides comprehensive steps for guiding students through each experiment Rigorously researched content prepared by a team of educators writers editors and proofreaders CBSE Class XI Biology Lab Manual has properly labeled high resolution diagrams and graphs A separate section on Viva Questions has been included to aid students in their Viva examination The Lab Manual explains the complex topics through detailed illustrations and lucid language making them simple to grasp Worksheets have been provided in CBSE Class 11th Biology Lab Manual for doing rough work **Lab**

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EXPERIMENTS

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- 4 Meiosis cell division
- 5 T S of Blastula
- 6 Mendel's inheritance laws
- 7 Pedigree chart
- 8 Controlled pollination
- 9 Common disease causing organisms
- 10 Symbolic Association in root nodules
- 11 Homologous and analogous organs

PROJECTS

- 1 To study the different means of pollination
- 2 To study infectious diseases of humans
- 3 To study birth rate and death rate In your village or town
- 4 To study genetic disorders
- 5 To study malaria causes and disorders
- 6 To study causes symptoms and diagnosis of cancer
- 7 To study causes symptoms and diagnosis of AIDS
- 8 To study the applications and importance of Biotechnology
- 9 At the time of COVID 19 what kind of problems did your acquaintance have to face when he got covid
- 10 To study DRUG ABUSE
- 11 Name the medicinal drugs which are banned all over the world
- 12 Describe the response of biotic factors to abiotic factors in the environment
- 13 Biodiversity and Conservation Practices in Indian Culture
- 14 What has been the effect on pollution control after covid
- 15 To study Management of sewage and waste materials
- 16 To study the role of micro organisms in human welfare
- 17 To study about harmful micro organisms

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Table of Contents Class 12 Biology Practical Manual Cbse

1. Understanding the eBook Class 12 Biology Practical Manual Cbse
 - The Rise of Digital Reading Class 12 Biology Practical Manual Cbse
 - Advantages of eBooks Over Traditional Books
2. Identifying Class 12 Biology Practical Manual Cbse
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Class 12 Biology Practical Manual Cbse
 - User-Friendly Interface
4. Exploring eBook Recommendations from Class 12 Biology Practical Manual Cbse
 - Personalized Recommendations
 - Class 12 Biology Practical Manual Cbse User Reviews and Ratings
 - Class 12 Biology Practical Manual Cbse and Bestseller Lists
5. Accessing Class 12 Biology Practical Manual Cbse Free and Paid eBooks
 - Class 12 Biology Practical Manual Cbse Public Domain eBooks

- Class 12 Biology Practical Manual Cbse eBook Subscription Services
- Class 12 Biology Practical Manual Cbse Budget-Friendly Options
- 6. Navigating Class 12 Biology Practical Manual Cbse eBook Formats
 - ePub, PDF, MOBI, and More
 - Class 12 Biology Practical Manual Cbse Compatibility with Devices
 - Class 12 Biology Practical Manual Cbse Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Class 12 Biology Practical Manual Cbse
 - Highlighting and Note-Taking Class 12 Biology Practical Manual Cbse
 - Interactive Elements Class 12 Biology Practical Manual Cbse
- 8. Staying Engaged with Class 12 Biology Practical Manual Cbse
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Class 12 Biology Practical Manual Cbse
- 9. Balancing eBooks and Physical Books Class 12 Biology Practical Manual Cbse
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Class 12 Biology Practical Manual Cbse
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Class 12 Biology Practical Manual Cbse
 - Setting Reading Goals Class 12 Biology Practical Manual Cbse
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Class 12 Biology Practical Manual Cbse
 - Fact-Checking eBook Content of Class 12 Biology Practical Manual Cbse
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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