



NCERT CLASS 11

# BIOLOGY LAB MANUAL



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# Ncert Biology Lab Manual

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



## **Ncert Biology Lab Manual:**

*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

**Practical/Laboratory Manual Biology Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal** Dr. Sunita Bhagia ,Megha Bansal,2020-06-22

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      Academic Practical Science X Dr. N. K.

Sharma,Bishan Lal,2011-12      **Science Lab Manual** Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual      Comprehensive Laboratory Manual In Biology XI Dr. J. P. Sharma,2011-12      **Chemistry Class XI - SBPD Publications** Dr. Subhash Chandra Rastogi, ,Er. Meera Goyal,2022-02-17 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      *Chemistry Class 11 - [Bihar & JAC]* Dr. S. C. Rastogi, ,Er. Meera Goyal,2022-07-20 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

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*Chemistry Class XII - SBPD Publications* Dr. Subhash Chandra Rastogi, Er. Meera Goyal, 2021-05-01 Syllabus Unit I Solid State Unit II Solutions Unit III Electrochemistry Unit IV Chemical Kinetics Unit V Surface Chemistry Unit VI General Principles and Processes of Isolation of Elements Unit VII p Block Elements Unit VIII d and f Block Elements Unit IX Coordination Compounds Unit X Haloalkanes and Haloarenes Unit XI Alcohols Phenols and Ethers Unit XII Aldehydes Ketones and Carboxylic Acids Unit XIII Organic Compounds Containing Nitrogen Unit XIV Biomolecules Unit XV Polymers Unit XV Polymers Unit XVI Chemistry in Everyday Life Content 1 Solid State 2 Solutions 3 Electro Chemistry 4 Chemical Kinetics 5 Surface Chemistry 6 General Principles And Processes Of Isolation Of Elements 7 P Block Elements 8 D And F Block Elements 9 Coordination Compounds And Organometallics 10 Haloalkanes And Haloarenes 11 Alcohols Phenols And Ethers 12 Aldehydes Ketones And Carboxylic Acids 13 Organic Compounds Containing Nitrogen 14 Biomolecules 15 Polymers 16 Chemistry In Everyday Life Appendix 1 Important Name Reactions And Process 2 Some Important Organic Conversion 3 Some Important Distinctions

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Systems which was held on April 6 7 2018 in Ahmedabad India Divided into two volumes the book discusses the fundamentals of various data analytics and algorithms making it a valuable resource for researchers future studies

□□□□□□ (Chemistry) Class 11 - [Bihar & JAC] Dr. S. C. Rastogi, ,Er. Meera Goyal,2022-10-11 Report - Educational Research and Innovations Committee, National Council of Educational Research and Training National Council of Educational Research and Training (India),1979 **Indian Education** ,1967 **Annual Report** India. Department of Information Technology,2010 International Books in Print ,1991 **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 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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