



# **LABORATORY** Manual

# **BIOLOGY**

**CBSE Class XI**

**Experiments  
Viva-Voce**



# Ncert 11th Cbse Biology Lab Manual

**National Council of Educational  
Research and Training (India)**



## **Ncert 11th Cbse 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

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Dr. Priyanka Gupta, Mr. Kaushalesh Dwivedi, 2022-08-04

With the NEP and expansion of research and knowledge has changed the face of education to a great extent In the Modern times education is not just constricted to the lecture method but also includes a practical knowledge of certain subjects This way of education helps a student to grasp the basic concepts and principles Thus trying to break the stereotype that subjects like Physics Chemistry and Biology means studying lengthy formulas complex structures and handling complicated instruments

we are trying to make education easy fun and enjoyable      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      **NCERT Biology Practical/Lab Manual/Project Class 12** Dr. Sunita Bhagiya, ,Megha Bansal,2024-09-29 EXPERIMENTS 1 To study pollen germination on slide 2 To study plant population density by quadrat method 3 To study plant population frequency by quadrat method 4 To study various stages of mitosis in root tip of onion by preparing slide in acetocarmine 5 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 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 VIVA VOCE FOR PRACTICE      **Biology Lab Manual Class XII | As per the latest CBSE syllabus and other State Board following the curriculum of CBSE.** Dr. Priyanka Gupta,Mr. Kaushalesh Dwivedi,2022-08-04 With the NEP and expansion of research and knowledge has changed the face of education to a great extent In the Modern times education is not just constricted top the lecture method but also includes a practical knowledge of certain subjects This way of education helps a student to grasp the basic concepts and principles Thus trying to break the stereotype that subjects like Physics Chemistry and Biology means studying lengthy formulas complex structures

and handling complicated instruments we are trying to make education easy fun and enjoyable      *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      **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 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      **NCERT Rasayan Vigyan - Chemistry Class -11** Dr. S. C. Rastogi ,Er. Meera Goyal,2023-06-15 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 Oxidation Reduction or 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 Appendix I Log Antilog Table I VBQ I HOTS I Latest Model Paper I Examination Paper      Comprehensive Biology Activities Vol.I XI Dr. J. P. Sharma,2010      **NEP Jeev vigyan**      **Biology Class 11 Scorer Guru Publications** Megha Bansal ,Sunita Bhagiya,2023-11-30 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      *Jeev Vigyan -      - Biology Class 11* Dr. Sunita Bhagia, ,Megha

Bansal,2023-06-15 1 The Living World 2 Biological Classification 3 Plant Kingdom 4 Animal Kingdom 5 Morphology Of Flowering Plants 6 Anatomy Of Flowering Plants 7 Structural Organisation In Animals 8 Cell The Unit Of Life 9 Biomolecules 10 Cell Cycle And Cell Division 11 Transport In Plants 12 Mineral Nutrition in Plants 13 Photosynthesis In Higher Plants 14 Respiration In Plants 15 Plant Growth And Development 16 Digestion And Absorption 17 Breathing And Exchange Of Gases 18 Body Fluids And Circulation 19 Excretory Products And Their Elimination 20 Locomotion And Movements 21 Neural Control And Coordination 22 Chemical Co ordination And Integration      Report - Educational Research and Innovations Committee, National Council of Educational Research and Training National Council of Educational Research and Training (India),1979      भारत के भौतिक विज्ञान (Chemistry) Class 11 - [Bihar & JAC] Dr. S. C. Rastogi, ,Er. Meera Goyal,2022-10-11      *Xam Success Bhautik Vigyan*      भारत के भौतिक विज्ञान Physics Class 11 Dr. J. P. Goyal, ,D. C. Upadhyay,Er. Meera Goyal,2023-11-10 Unit I Physical World and Measurement 1 Units and Measurements Unit II Kinematics 2 Motion in a Straight Line 3 Motion in a Plane Unit III Laws of Motion 4 Laws of Motion Unit IV Work Energy and Power 5 Work Energy and Power Unit V Motion of System of Particles and Rigid Body 6 System of Particles and Rotational Motion Unit VI Gravitation 7 Gravitation Unit VII Properties of Bulk Matter 8 Mechanical Properties of Solids 9 Mechanical Properties of Fluids 10 Thermal Properties of Matter Unit VIII Thermodynamics 11 Thermodynamics Unit IX Behaviour of Perfect Gas and Kinetic Theory 12 Kinetic Theory Unit X Oscillations and Waves 13 Oscillations 14 Waves I Log Antilog and other Tables I Value Based Questions VBQ I Chapterwise Objective Type Questions      **Lab Manual Biology Class 11** Rajesh Kumar, Lab Manual      **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 Manual Biology Hard Bound Class 11** Rajesh Kumar, Lab Manual      Who's who in Finance and Industry ,2001      *Biology Laboratory Manual for Class XI* Sarita Aggarwal,1998      *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 quadrature method 6 Study the plant population frequency by quadrature 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

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