



NCERT CLASS 12 BIOLOGY LAB MANUAL

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Class 12 Ncert Lab Manual For Biology

**Neena Sinha, R.Rangarajan, Rajesh
Kumar**



Class 12 Ncert Lab Manual For Biology:

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 *Science Lab Manual Class IX | As per the latest CBSE syllabus and other State Board following the curriculum of CBSE.* Mr. Gopi Chandra Gupta,Mr. Shivam Tiwari,2022-08-01 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 Mathematics and Science means studying lengthy formulas complex structures and handling complicated instruments we are trying to make education easy fun and enjoyable Oswaal One for All Class 12 English, Physics, Chemistry & Biology (Set of 4 books) (For CBSE Board Exam 2024) Oswaal Editorial Board,2023-07-31 Description of the product Strictly as per the latest CBSE Syllabus dated March 31 2023 Cir No Acad 39 2023 Acad45 2023 100 % Updated for 2023 24 with Latest Rationalised NCERT Textbooks Concept Clarity with Concept wise Revision Notes Mind Maps Mnemonics 100% Exam Readiness with Previous Year s Questions Board Marking Scheme Answers Valuable Exam Insights with 3000 NCERT Exemplar Questions Extensive Practice with Unit Wise Self Assessment Questions Practice Papers NEP Compliance with Competency based questions Lab Sparks: Amazing Chemistry – Level-2 for Classes 9-12: A Student-Friendly Practical Manual | You Can See, Feel & Explore! | 35+ Advanced Experiments KUNDAN KUMAR,2025-07-14 Ignite the Spark of Advanced Chemistry with Over 35 Electrifying Experiments That Will Blow Your Mind Welcome to Lab Sparks Amazing Chemistry Level 2 a student friendly practical manual designed for curious minds in Classes 9 12 Ages 14 18 This book transforms complex chemistry concepts into hands on real world experiments perfect for board practicals NEET JEE preparation and science enthusiasts From the dramatic Barking Dog Reaction to glowing liquids from color changing indicators to electrolysis of water every experiment is crafted to make advanced chemistry engaging safe and unforgettable What s Inside Step by step instructions with emoji based visuals Real life connections see how chemical reactions power rockets batteries and life itself Advanced Analysis Titration gas laws reaction kinetics and more Safety tips teacher notes for every activity Aligned with NCERT CBSE syllabus and NEP 2020 guidelines Perfect for project files science exhibitions and competitive exam prep Imagine Watching the Barking Dog Reaction roar with blue flames and sound Making light glow from chemicals chemiluminescence Splitting water into hydrogen and oxygen using electricity Seeing colors change like magic with acid base indicators Creating crystals that grow before your eyes This book is more than a lab manual it s a launchpad for future scientists doctors and engineers It builds critical thinking problem solving skills and a deep love for the invisible reactions that shape our world Perfect For CBSE State Board Students Class 9 12 NEET JEE Mains Aspirants Science Teachers Coaching Centers School Practical Files Science Fair Projects Gift for Young Scientists Who Love to Explore By Kundan Kumar PGT Chemistry Creator of Short Sweet Chemistry YouTube and Founder of Short Sweet Services Because Chemistry Isn t Just Formulas It s Magic in a Bottle Ready to turn ordinary ingredients into extraordinary adventures Let s get started **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

Chemistry Class

12 Dr. S C Rastogi, ,Er. Meera Goyal,2022-09-30

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

Long Antilog Table

Board Examination Papers

Comprehensive Biology Activities Vol.I XI

Dr. J. P. Sharma,2010

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

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

Annual Report India. Department of Information Technology,2010 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 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

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