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LABORATORY MANUAL IN **BIOLOGY**



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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 Tradescantia 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
- 13 Labeo Rohita Rohu
- 14 Rana Tigrina Frog
- 15 Hemidactylus Lizard
- 16 Columba Livia Pigeon
- 17 Oryctolagus 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 takes 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 **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 **Comprehensive Laboratory Manual In Biology XI** Dr. J. P. Sharma, 2011-12

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halogens in the given organic compound sample number by Lassaigne's test

INVESTIGATORY PROJECTS

A Checking of Bacterial Contamination in Water

- 1 To check the bacterial contamination in drinking water by testing sulphide ions

B Methods of Water Purification

- 1 To purify water from suspended impurities by using sedimentation
- 2 To purify water by boiling
- 3 To purify water by distillation method
- 4 To purify water by reverse osmosis technique
- 5 To purify water by GAC method
- 6 To purify water by bleach treatment
- 7 To purify water by oxidising agent
- 8 To purify water by ozone treatment method

C Water Analysis

- 1 To test the hardness of different water samples

D Foaming Capacity of Various Soaps

- 1 To compare the foaming capacity of different washing soaps
- 2 To study the effect of addition of sodium carbonate on foaming capacity of washing soap

E Tea Analysis

- 1 To study the acidity of different samples of tea leaves tea by using pH paper

F Analysis of Fruits and Vegetable Juices

- 1 To analyse the fruit and vegetable juices for the constituent present in them

G Rate of Evaporation

- 1 To study the rate of evaporation of different liquids

H Effect of Acids and Bases on Tensile Strength of Fibres

- 1 To compare the tensile strength of natural fibres and synthetic fibres
- 2 To study the effect of acids and bases on tensile strength of different fibres

Log Antilog Table *Laboratory Manual in Elementary Biology ... Emanuel Roth Boyer, 1894*

Laboratory Manual of Aquatic Biology James W. Eckblad, 1978 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

- 1 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 ICSE-Lab Manual Biology-TB-09 Alice Jacob, ICSE Lab Manual Biology TB 09 *ENC Focus* ,2000 **Forensic DNA Biology** Kelly M. Elkins,2012-08-03 DNA typing has revolutionized criminal investigations and has become a powerful tool in the identification of individuals in criminal and paternity cases Forensic DNA Biology A Laboratory Manual is comprised of up to date and practical experiments and step by step instructions on how to perform DNA analysis including pipetting microscopy and hair analysis presumptive testing of body fluids and human DNA typing Modern DNA typing techniques are provided reflecting real life where not all institutions and crime labs can afford the same equipment and software Real case studies will be used throughout Provides practical step by step instruction on how to perform forensic DNA analysis Includes analysis of hair presumptive testing of body fluids human DNA typing and statistics Covers techniques such as pipetting microscopy and DNA extraction Pre and post lab exercises and questions assist the reader in learning the material Report writing templates assure the reader learns real world crime lab procedure *Popular Science* ,1943-12 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **El-Hi Textbooks in Print** ,1984 **American Education** ,1903 *Florida Schools* ,1964 Plant Molecular Biology — A Laboratory Manual Melody S. Clark,2013-11-27 The aim of this manual is to encompass a broad range of the latest plant molecular biology techniques However it is acknowledged that any manual will be read and hopefully used by a wide range of people with different levels of experience Hence the remit of the manual was widened to include a full range of basic molecular tech niques so that novices do not have to consult several texts to enable the execution of each major experiment The manual is divided into three main parts Part I Basic Molecular Techniques The raison d etre behind this part is to provide a background knowledge of molecular techniques but also to reduce duplication in later chapters this is particularly true of the methods contained in Chap 1 All authors provided very detailed methods and often forgot that so me of these would be covered earlier A particular favourite was DNA extraction methods wherc everyone managed to provide a slightly different

variant My view was that it is far less confusing for the reader to be presented with one standard protocol and accompanying troubleshooting tips than to read a different version in each chapter In this way the basic techniques are addressed more in depth and my apologies to all authors for judicious use of the delete key RNA methodology is covered in Chapter 3 This proceeds from the fundamentals of extraction northern blotting etc to cDNA libraries Biology Kenneth Raymond Miller, Joseph S. Levine, 1995 **Laboratory Manual for Invertebrate Biology** John N. Belkin, 1949

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