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CLASS XII



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Lab Manual Biology For Class Xiith

Dr. Ram Dev Sharma, Er. Meera Goyal



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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 water holding 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 on the 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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and to find out the values of current and voltage gains

SECTION A ACTIVITIES

- 1 To measure the resistance and impedance of an inductor with or without iron core
- 2 To measure resistance voltage AC DC current AC and check continuity of given circuit using multimeter
- 3 To assemble a household circuit comprising of three bulbs three on off switches a fuse and a power source
- 4 To assemble the components of a given electrical circuit
- 5 To study the variation in potential drop with length of a wire for a steady current
- 6 To draw the diagram of a given open circuit comprising atleast a battery resistor rheostat key ammeter and voltmeter Make the components that are not connected in proper order and correct the circuit and also the circuit diagram

SECTION B ACTIVITIES

- 1 To study effect of intensity of light by varying distance of the source on an LDR Light Depending Resistor
- 2 To identify a diode a LED a transistor an IC a resistor and a capacitor from mixed collection of such items
- 3 Use a multimeter to i identify the transistor ii distinguish between n p n and p n p type transistor iii see the unidirectional flow of current in case of a diode and a LED iv Check whether a given electronic components e g diode transistor or IC is in working order
- 4 To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab
- 5 To observe polarisation of light using two polaroids
- 6 To observe diffraction of light due to a thin slit
- 7 To study the nature and size of the image formed by i convex lens ii concave mirror on a screen by using candle and a screen for different distance of the candle from the lens mirror
- 8 To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses

SUGGESTED INVESTIGATORY PROJECT

- 1 To Study Various factors on which the Internal Resistance EMF of a cell depends
- 2 To study the variations in current following in a circuit containing L D R because of variation a In the power of incandescent lamp used to illuminate the L D R Keeping all the lamps in fixed position b In the Distance of a incandescent lamp of fixed power used to illuminate the L D R
- 3 To find the refractive indices of a Water b Oil Transparent using a plane mirror an equiconvex lens made from a glass of known refractive index and an adjustable object needle
- 4 To design an appropriate logic gate combination for a given truth table
- 5 To investigate the relation between the ratio of i Output and Input voltage ii Number of turns in secondary coils and primary coils of a self designed transformer
- 6 To Investigate the dependence of angle of deviation on the angle of incidence using a hollow prism filled one by one with different transparent fluids
- 7 To Estimate the charge induced on each one of the two identical styrofoam balls suspended in a vertical plane by making use of Coulomb's Law
- 8 To study the factors on which the self inductance of a coil depends by observing the effect of this coil when put in series with a resistor bulb in a circuit fed up by an AC source of adjustable frequency
- 9 To study the earth's magnetic field using a tangent galvanometer

APPENDIX Some Important Tables of Physical Constants

Logarithmic and other Tables

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Mr. Rohit Manglik, Mr. Pradeep Dwivedi, 2022-08-01

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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 diseases causing organisms 10 Xerophytic adaptation 11 Aquatic adaptation VIVA VOCE *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 *EduGorilla CBSE Board Class XII Book 2024 (Science-PCB) | 74 Solved MCQ Practice Tests For Physics, Chemistry and Biology with Free Access to Online Tests* EduGorilla Prep Experts,2024-06-01 Best Selling Book for CBSE Board Class XII Science PCB Practice Tests with objective type questions as per the latest syllabus given by the CBSE Compare your performance with other students using Smart Answer Sheets in EduGorilla s CBSE Board Class XII Science PCB Practice Tests Practice Kit CBSE Board Class XII Science PCB Practice Tests Preparation Kit comes with 30 MCQ Practice Tests with the best quality content Increase your chances of selection by 14X CBSE Board Class XII Science PCB Practice Tests Prep Kit comes with well structured and 100% detailed solutions for all the questions Clear exam with good grades using thoroughly Researched Content by experts [EduGorilla's CBSE Class 12th Physical Education Lab Manual | 2024 Edition | A Well Illustrated, Complete Lab Activity book with Separate FAQs for Viva Voce Examination](#) EduGorilla Prep Experts, **Complete set of Mathematics Part I & Part II Class XII - SBPD Publications** Dr. Ram Dev Sharma Er. Meera Goyal,2021-05-31 Strictly according to the latest syllabus prescribed by Central Board of Secondary Education CBSE Delhi NCERT State Boards of Bihar Jharkhand Haryana H P Uttarakhand M P Chhattisgarh etc Navodaya Kendriya Vidyalayas following CBSE curriculum based on NCERT guidelines Volume I UNIT I RELATIONS AND FUNCTIONS 1 Relations 2 Functions 3 Inverse Trigonometric Functions UNIT II ALGEBRA 4 Matrices 5 Determinants 6 Adjoint and Inverse of a Matrix 7 Solution of a System of Linear Equations UNIT III CALCULUS 8 Continuity 9 Differentiability 10 Differentiation 11 Second Order Derivative 12 Rolle s Theorem and Lagrange s Mean Value Theorem 13 Applications of Derivatives 14 Increasing and Decreasing Functions 15 Tangent and Normal 16 Approximation 17 Maxima and Minima Board Examination Papers Volume II 1 Indefinite Integrals 2 Definite Integrals 3 Applications of Integrals 4 Differential Equations 5 Applications of Differential Equations 6 Vectors 7 Scalar or Dot Product of Two Vectors 8 Vector or Cross Product of Two Vectors 9 Angle between Two Lines 10 Straight Line 11 The Plane 12 Linear Programming 13 Multiplication Theorem of Probability 14 Theorem of Total Probability and Bayes Theorem 15 Random Variable and Probability Distribution 16 Bernoulli Trials and

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