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PHYSICS

Lab Manual

For Class X



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Core Laboratory Manual of Physics for Class XI Anil Sharma, Prashant Sharma, Goyal Brothers Prakashan, 2020-04-16 Goyal Brothers Prakashan

Practical/Laboratory Manual Biology -by Dr. Sunita Bhagia, Er. Meera Goyal (SBPD Publications) Dr. Sunita Bhagia, Er. Meera Goyal, 2021-07-03

Introduction

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 diseases causing organisms

10 Xerophytic adaptation

11 Aquatic adaptation

VIVA VOCE

Mathematics Class XI by Dr. Ram Dev Sharma, Er. Meera Goyal Dr. Ram Dev Sharma, Er. Meera Goyal, 2020-06-27

Unit I Sets and Functions

1 Sets

2 Relations and Functions

3 Trigonometric Functions

Unit II Algebra

4 Principle of Mathematical Induction

5 Complex Numbers and Quadratic Equations

6 Linear Inequalities

7 Permutations and Combinations

8 Binomial Theorem

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Unit III Co ordinate Geometry

10 Straight Lines

11 Conic Sections

12 Introduction to Three Dimensional Geometry

Unit IV Calculus

13 Limits and Derivatives

Unit V Mathematical Reasoning

14 Mathematical Reasoning

Unit VI Statistics Probability

15 Statistics

16 Probability Value Based Questions

VBQ Board Examination Papers

Practical/Laboratory Manual Physics Class - XII -by Er. Meera Goyal (SBPD Publications) Er. Meera Goyal, 2021-07-03

In accordance to the new syllabus of Central Board of Secondary Education CBSE New Delhi and other State Boards following CBSE Curriculum

Numerical Physics With Chapterwise Question - Answers Class XII - SBPD Publications D. C. Upadhyay, ,Dr. J. P. Goel, ,Er. Meera Goyal, 2022-05-17

Numerical Physics With Chapterwise Question - Answers Class 12 [MP & Chhattisgarh] Dr. J. P. Goel, ,D. C. Upadhyay, ,Er. Meera Goyal, 2023-03-20

UNIT I Electrostatics

1 Electric Charge and Electric Field

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4 Electric Capacitance

UNIT II Current Electricity

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6 Electric Measurement

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Biology Class XI by Dr. O. P. Saxena Dr. Suneeta Bhagiya Megha Bansal Dr. O. P. Saxena, Dr. Suneeta Bhagiya, Megha Bansal, 2020-06-22 Content 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 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 Coordination And Integration Chapter Objective Type Questions Syllabus Unit I Diversity of Living Organisms Unit II Structural Organisation in Plants and Animals Unit III Cell Structure and Function Unit IV Plant Physiology Unit V Human Physiology

Practical/Laboratory Manual Physics Class - 12 Er. Meera Goyal, 2023-04-30 Sections A 1 Experiments 2 Activities Sections B 1 Experiments 2 Activities 3 Suggested Investigatory 4 Project Work

Numerical Physics With Chapterwise Question - Answers Class XI by D. C. Upadhyay, Dr. J. P. Goel, Er. Meera Goyal D. C. Upadhyay, Dr. J. P. Goel, Er. Meera Goyal, 2020-06-27 Unit 1 Physical World and Measurement 1 Systems of Units and Measurement 2 Significant Figures and Error Analysis 3 Dimensional Analysis Unit 2 Kinematics 4 Motion in a Straight Line 5 Vector Analysis 6 Motion in a Plane Unit 3 Laws of Motion 7 Newton s Laws of Motion 8 Friction 9 Uniform Circular Motion Unit 4 Work Energy and Power 10 Work Energy and Power Unit 5 Motion of System of Particles and Rigid Body 11 Centre of Mass 12 Rotational Motion and Moment of Inertia Unit 6 Gravitation 13 Gravitation Unit 7 Properties of Bulk Matter 14 Elasticity 15 Pressure of Fluids 16 Viscosity 17 Surface Tension 18 Temperature and Calorimetry 19 Transfer of Heat Unit 8 Thermodynamics 20 First Law of Thermodynamics 21 Second Law of Thermodynamics Unit 9 Behaviour of Perfect Gases and Kinetic Theory of Gases 22 Behaviour of Perfect Gas and Kinetic Theory of Gases Unit 10 Oscillations and Waves 23 Oscillations 24 Speed of Mechanical Waves and Progressive Waves 25 Superposition of Waves Interference and Beats 26 Reflection of Waves Stationary Waves in Stretched Strings and Organ Pipes 27 Doppler s Effect

Bihar Board Numerical Physics Class 11 D. C.

Upadhyay, ,Dr. J. P. Goel, ,Er. Meera Goyal,2023-07-30 Unit 1 Physical World and Measurement 1 Systems of Units and Measurement 2 Significant Figures and Error Analysis 3 Dimensional Analysis Unit 2 Kinematics 4 Motion in a Straight Line 5 Vector Analysis 6 Motion in a Plane Unit 3 Laws of Motion 7 Newton s Laws of Motion 8 Friction 9 Uniform Circular Motion Unit 4 Work Energy and Power 10 Work Energy and Power Unit 5 Motion of System of Particles and Rigid Body 11 Centre of Mass 12 Rotational Motion and Moment of Inertia Unit 6 Gravitation 13 Gravitation Unit 7 Properties of Bulk Matter 14 Elasticity 15 Pressure of Fluids 16 Viscosity 17 Surface Tension 18 Temperature and Calorimetry 19 Transfer of Heat Unit 8 Thermodynamics 20 First Law of Thermodynamics 21 Second Law of Thermodynamics Unit 9 Behaviour of Perfect Gases and Kinetic Theory of Gases 22 Behaviour of Perfect Gas and Kinetic Theory of Gases Unit 10 Oscillations and Waves 23 Oscillations 24 Speed of Mechanical Waves and Progressive Waves 25 Superposition of Waves Interference and Beats 26 Reflection of Waves Stationary Waves in Stretched Strings and Organ Pipes 27 Doppler s Effect Practical/Laboratory Manual Physics Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal Dr. J. P. Goel, Er. Meera Goyal,2020-06-24 SECTION A EXPERIMENTS 1 To determine resistance per cm of a given wire by plotting a graph for potential difference versus current 2 To find resistance of a given wire using meter bridge and hence determine the specific resistance Resistivity of its material 3 To verify the laws of combination Series Parallel of resistance using ameter bridge 4 To compare the e m f of two given primary cells using potentiometer 5 To determine the internal resistance of a given primary cell e g Leclanche cell using potentiometer 6 To determine the resistance of a galvanometer by half deflection method and to find its figure of merit 7 A To convert a given galvanometer of known resistance and figure of merit into an ammeter of desired range and to verify the same 7 B To convert a given galvanometer of known resistance and figure of merit into a voltmeter of desired range and to verify the same 8 To find the frequency of AC mains with a sonometer and horse shoe magnet SECTION B EXPERIMENTS 1 To find the value of v for different values of u in case of a concave mirror and to find the focal length 2 To find the focal length of a convex lens by plotting graph between u and v or $1/u$ and $1/v$ 3 To find the focal length of a convex mirror using a convex lens 4 To find the focal length of a concave lens using a convex lens 5 To determine the angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and angle of deviation 6 To determine refractive index of a glass slab using a travelling microscope 7 To find the refractive index of a liquid by using a convex lens and a plane mirror 8 To draw I V characteristics curve of a p n function in forward bias and reverse bias 9 To draw the characteristics curve of a zener diode and to determine its reverse break down voltage 10 To study the characteristics of a common emitter n p n or p n p transistor 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 coulombs 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 a c 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

Practical/Laboratory Manual

Physics Class XI based on NCERT guidelines by Dr. J. P. Goel & Er. Meera Goyal Dr. J. P. Goel ,Er. Meera Goyal,2020-06-26

EXPERIMENTS

- 1 Measurement of Length
- 1 To measure the diameter of a small spherical cylindrical body by using a vernier callipers
- 2 To measure the dimensions of a given regular body of known mass using vernier callipers and hence find its density
- 3 To measure the internal diameter and depth of a given cylindrical vessel say calorimeter beaker by using vernier callipers and hence find its internal volume i e capacity
- Viva voce
- 2 Screw Gauge Micrometer
- 4 To determine the diameter of a given wire using a screw gauge and find its volume
- 5 To find the thickness of a given sheet with the help of screw gauge
- 6 To measure the volume of an irregular lamina by using a screw gauge
- Viva voce
- 3 Spherometer
- 7 To measure the radius of

curvature of a given spherical surface convex lens by using a spherometer Viva voce 4 Mass and Weight 8 To determine the mass of two different objects using a beam balance Viva voce 5 Parallelogram Law of Vectors 9 To find the weight of a given body using parallelogram law of vectors Viva voce 6 Simple Pendulum Measurement of Time 10 Using a simple pendulum plot L T and L T^2 graphs Hence find the effective length of a second s pendulum using appropriate graphs Viva voce 7 Friction 11 To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizontal surface Viva voce 8 Motion of a Body Along an Inclined Plane 12 To find the downward force along an inclined plane acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination by plotting graph between force and \sin Viva voce SECTION B EXPERIMENTS 1 Elasticity 1 To determine the Young's modulus of elasticity of the material of the wire using Searle's apparatus Viva voce 2 Spring Constant 2 To find the spring constant of a helical spring by plotting load extension graph Viva voce 3 Boyle's Gas Law 3 To study the variation in volume with pressure for a sample of air constant temperature by plotting graphs between P and V and between P and $1/V$ 18 Viva voce 4 Surface Tension 4 To determine the surface tension of water by capillary rise method Viva voce 5 Viscosity 5 To determine the coefficient of viscosity of given liquid by measuring the terminal velocity of a given spherical body in it Viva voce 6 Newton's Law of Cooling 6 To study the relationship between temperature of a hot body and time by plotting a cooling curve Viva voce 7 Vibrations of Strings 7 To study the relation between frequency and length for a given wire under constant tension using a sonometer Viva voce 8 To study the relation between the length of a given wire and tension for constant frequency using sonometer Viva voce 8 Vibrations of Air Columns 9 To find the velocity of sound in air at room temperature using a resonance tube by two resonance position Viva voce 9 Specific Heat 10 To determine specific heat of a given solid by the method of mixture 11 To determine the specific heat of a given liquid by method of mixture Viva voce SECTION A ACTIVITIES 1 To make a paper scale of given least count e.g. 0.2 cm 0.5 cm and use it to measure the length of a given object 2 To determine the mass of a given body using a metre scale and by applying principle of moments Viva voce 3 To plot a graph for a given set of data using proper choice of scales and error bars Viva voce 4 To measure the force of limiting friction for rolling of a roller on horizontal plane Viva voce 5 To study the variation in the range of a jet of water with angle of projection Viva voce 6 To study the conservation of energy of a ball rolling down on inclined plane using a double inclined plane Viva voce 7 To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time Viva voce SECTION B ACTIVITIES 1 To observe the change of the state and plot a cooling curve for molten wax Viva voce 2 To observe and explain the effect of heating on a bimetallic strip Viva voce 3 To note the change in level of liquid in a container on heating and interpret the observations Viva voce 4 To study the effect of detergent in surface tension by observing capillary rise Viva voce 5 To study the factors affecting the rate of loss of heat of a liquid Viva voce 6 To study the effect of load on depression of a suitably clamped meter scale loaded i at its end ii in the middle Viva voce

7 To observe the decrease in pressure with the increase in velocity of the fluid Viva voce APPENDIX Some Important Tables of Physical Constants Log Antilog and other Tables **Jharkhand Board Economics Class 12 Revised Edition** Dr. Anupam Agrawal, Mrs. Sharad Agrawal, 2025-04-20 Part A Introductory Micro Economics 1 Micro Economics An Introduction 2 Economy its Central Problems 3 Consumer's Equilibrium 4 Demand and Law of Demand 5 Price Elasticity of Demand 6 Production Function Returns to a Factor and Returns to Scale 7 Production Costs 8 Concepts of Revenue 9 Producer's Equilibrium Meaning and Conditions 10 Supply and Law of Supply 11 Elasticity of Supply 12 Different Forms of Market Meaning and Features 13 Market Equilibrium Under Perfect Competition and Effects of Shifts in Demand Supply 14 Simple Applications of Tools of Demand and Supply Part B Introductory Macro Economics 15 Macro Economics Meaning 16 Circular Flow of Income 17 Concepts and Aggregates related to National Income 18 Measurement of National Income 19 Money Meaning Evolution and Functions 20 Commercial Banks and Credit Creation 21 Central Bank Meaning and Functions 22 Recent Significant Reforms and Issues in Indian Banking System Privatisation and Modernisation 23 Aggregate Demand Aggregate Supply and Related Concepts Propensity to Consume Propensity to Save and Investment 24 Short Run Equilibrium Output 25 Investment Multiplier and its Mechanism 26 Problems of Deficient and Excess Demand 27 Measures to Correct Deficient Demand and Excess Demand 28 Government Budget and Economy 29 Foreign Exchange Rate 30 Balance of Payment Accounts Meaning and Components Board Examination Papers **The Indian National Bibliography**, 2018-04

NCERT Economics Class 12 Revised 18th Edition for the Session of 2025-26 Dr. Anupam Agrawal, Mrs. Sharad Agrawal, 2025-03-11 Part A Introductory Micro Economics 1 Micro Economics An Introduction 2 Economy its Central Problems 3 Consumer's Equilibrium 4 Demand and Law of Demand 5 Price Elasticity of Demand 6 Production Function Returns to a Factor and Returns to Scale 7 Production Costs 8 Concepts of Revenue 9 Producer's Equilibrium Meaning and Conditions 10 Supply and Law of Supply 11 Elasticity of Supply 12 Different Forms of Market Meaning and Features 13 Market Equilibrium Under Perfect Competition and Effects of Shifts in Demand Supply 14 Simple Applications of Tools of Demand and Supply Part B Introductory Macro Economics 15 Macro Economics Meaning 16 Circular Flow of Income 17 Concepts and Aggregates related to National Income 18 Measurement of National Income 19 Money Meaning Evolution and Functions 20 Commercial Banks and Credit Creation 21 Central Bank Meaning and Functions 22 Recent Significant Reforms and Issues in Indian Banking System Privatisation and Modernisation 23 Aggregate Demand Aggregate Supply and Related Concepts Propensity to Consume Propensity to Save and Investment 24 Short Run Equilibrium Output 25 Investment Multiplier and its Mechanism 26 Problems of Deficient and Excess Demand 27 Measures to Correct Deficient Demand and Excess Demand 28 Government Budget and Economy 29 Foreign Exchange Rate 30 Balance of Payment Accounts Meaning and Components Board Examination Papers **Core Laboratory Manual of Physics for Class XII** Anil Sharma, Prashant Sharma, 2020-04-16 Goyal Brothers Prakashan **Economics Class 12** Dr. Anupam Agarwal, Mrs. Sharad

Agarwal,2023-04-29 Part A Introductory Micro Economics 1 Micro Economics An Introduction 2 Central Problems of an Economy 3 Consumer s Equilibrium 4 Demand and Law of Demand 5 Price Elasticity of Demand 6 Production Function Returns to a Factor and Returns to Scale 7 Production Costs 8 Concepts of Revenue 9 Producer s Equilibrium Meaning and Conditions 10 Supply and Law of Supply 11 Elasticity of Supply 12 Different Forms of Market Meaning and Features 13 Market Equilibrium Under Perfect Competition and Effects of Shifts in Demand Supply 14 Simple Applications of Tools of Demand and Supply Part B Introductory Macro Economics 15 Macro Economics Meaning 16 Circular Flow of Income 17 Concepts and Aggregates related to National Income 18 Measurement of National Income 19 Money Meaning Evolution and Functions 20 Commercial Banks and Credit Creation 21 Central Bank Meaning and Functions 22 Recent Significant Reforms and Issues in Indian Banking System Privatisation and Modernisation 23 Aggregate Demand Aggregate Supply and Related Concepts Propensity to Consume Propensity to Save and Investment 24 Short Run Equilibrium Output 25 Investment Multiplier and its Mechanism 26 Problems of Deficient and Excess Demand 27 Measures to Correct Deficient Demand and Excess Demand 28 Government Budget and Economy 29 Foreign Exchange Rate 30 Balance of Payment Accounts Meaning and Components Model Paper Board Examination Papers

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