



VELAMMAL VIDHYASHRAM, SURAPET

PHYSICS LAB MANUAL

2022-23

CLASS :XII

NAME :

R.NO. :

NOTE: While writing in the record, strictly follow the below; (if any doubt, confirm with teacher and then proceed)

LEFT HAND SIDE(PLANE PAGE) – 1. Circuit Diagram / Ray Diagram

- 2 . Observation and Observation Tables
- 3. Calculation

RIGHT HAND SIDE (RULED PAGE) – 1. Aim, 2.Apparatus Required, 3. Formula, 4. Model Graph (if any draw after formulae), 5. Procedure, 6. Result, 7. Precautions, and 8. Sources of error

- After writing all the 8 experiments, write the 6 activities as Activity 1, Activity 2

Velammal Lab Manual

J. A. Beran



Velammal Lab Manual:

Mahasagar, 1994 *Advances in Signal Processing and Intelligent Recognition Systems* Sabu M. Thampi, Sanghamitra Bandyopadhyay, Sri Krishnan, Kuan-Ching Li, Sergey Mosin, Maode Ma, 2015-12-24 This Edited Volume contains a selection of refereed and revised papers originally presented at the second International Symposium on Signal Processing and Intelligent Recognition Systems SIRS 2015 December 16 19 2015 Trivandrum India The program committee received 175 submissions Each paper was peer reviewed by at least three or more independent referees of the program committee and the 59 papers were finally selected The papers offer stimulating insights into biometrics digital watermarking recognition systems image and video processing signal and speech processing pattern recognition machine learning and knowledge based systems The book is directed to the researchers and scientists engaged in various field of signal processing and related areas *Who's who in the West*, 2000 Pollution Abstracts, 1995 Indexes material from conference proceedings and hard to find documents in addition to journal articles Over 1 000 journals are indexed and literature published from 1981 to the present is covered Topics in pollution and its management are extensively covered from the standpoints of atmosphere emissions mathematical models effects on people and animals and environmental action Major areas of coverage include air pollution marine pollution freshwater pollution sewage and wastewater treatment waste management land pollution toxicology and health noise and radiation **Who's who in the World** Marquis, 1990 CHEM 111 Lab Manual General Chemistry Christofield, 2018-08-13 *Laboratory Manual for Principles of General Chemistry* Jo Allan Beran, 2012 This custom edition of the Beran laboratory manual of general chemistry includes information about laboratory safety and techniques The Beran lab manual has long been a market leading lab manual for general chemistry The experiments are presented with concise objectives a comprehensive list of techniques detailed lab intros and step by step procedures *Chemistry Lab Manual* Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual **Laboratory Manual for General Chemistry** D. W. Margerum, F. D. Martin, R. E. Davis, 1968 **Laboratory Manual for Principles of General Chemistry** J. A. Beran, 2001 *Chemistry 132* Sharyl A. Majorski, 2010-08-02 Bio 120 Lab Manual, **Addison-Wesley Chemistry Laboratory Manual** Dennis D. Staley, 1995 *Principles of Biology Lab Manual* STCC Biology Department, 2013 Lab Manual for Zumdahl/Zumdahl's Chemistry Steven S. Zumdahl, Susan A. Zumdahl, 2013-01-01 Build skill and confidence in the lab with the 61 experiments included in this manual Safety is strongly emphasized throughout the lab manual Important Notice Media content referenced within the product description or the product text may not be available in the ebook version Lab Manual Latest Edition Dr. J. P. Goel, 2016-12-17 Lab E Manual Physics For XIIth Practicals A Every student will perform 10 experiments 5 from each section 8 activities 4 from each section during the academic year Two demonstration experiments must be performed by the teacher with participation of students The students will maintain a record of these demonstration experiments B Evaluation Scheme for Practical Examination One experiment from any one section 8 Marks

Two activities one from each section 4 4 8 Marks Practical record experiments activities 6 Marks Record of demonstration experiments Viva based on these experiments 3 Marks Viva on experiments activities 5 Marks Total 30 Marks

Section A

Experiments

- 1 To determine resistance per cm of a given wire by plotting a graph of potential difference versus current
- 2 To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material
- 3 To verify the laws of combination series parallel of resistances using a metre bridge
- 4 To compare the emf of two given primary cells using potentiometer
- 5 To determine the internal resistance of given primary cells using potentiometer
- 6 To determine resistance of a galvanometer by half deflection method and to find its figure of merit
- 7 To convert the given galvanometer of known resistance and figure of merit into an ammeter and voltmeter of desired range and to verify the same
- 8 To find the frequency of the a c mains with a sonometer

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 a given circuit using multimeter
- 3 To assemble a household circuit comprising 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 at least a battery resistor rheostat key ammeter and voltmeter Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram

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 graphs between u and v or between $1/u$ 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 angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation
- 6 To determine refractive index of a glass slab using a travelling microscope
- 7 To find refractive index of a liquid by using i concave mirror ii convex lens and plane mirror
- 8 To draw the I V characteristic curve of a p n junction in forward bias and reverse bias
- 9 To draw the characteristic curve of a zener diode and to determine its reverse break down voltage
- 10 To study the characteristics of a common emitter npn or pnp transistor and to find out the values of current and voltage gains

Activities

- 1 To study effect of intensity of light by varying distance of the source on a L D R
- 2 To identify a diode a LED a transistor and IC a resistor and a capacitor from mixed collection of such items
- 3 Use of multimeter to i identify base of transistor ii distinguish between npn and pnp type transistors iii see the unidirectional flow of current in case of a diode and a LED iv check whether a given electronic component 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 polarization 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 a candle and a screen for different distances 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 Projects

1 To investigate whether the energy of a simple pendulum is conserved 2 To determine the radius of gyration about the centre of mass of a metre scale as a bar pendulum 3 To investigate changes in the velocity of a body under the action of a constant force and determine its acceleration 4 To compare effectiveness of different materials as insulators of heat 5 To determine the wavelengths of laser beam by diffraction 6 To study various factors on which the internal resistance emf of a cell depends 7 To construct a time switch and study dependence of its time constant on various factors 8 To study infrared radiations emitted by different sources using photo transistor 9 To compare effectiveness of different materials as absorbers of sound 10 To design an automatic traffic signal system using suitable combination of logic gates 11 To study luminosity of various electric lamps of different powers and make 12 To compare the Young's modulus of elasticity of different specimens of rubber and also draw their elastic hysteresis curve 13 To study collision of two balls in two dimensions 14 To study frequency response of i a resistor an inductor and a capacitor ii RL circuit iii RC circuit iv LCR series circuit

Chem 127 and Chem 128 - General Organic and Biological Chemistry MICHAEL. O'DONNELL, Bruce Kowiatek, 2019-05-08 *General Biology Lab Manual* William H. Mason, 1996 Chemistry 123 Laboratory Manual Karen Eichstadt, 1997-03-01 *General Chemistry Lab Manual*, 2024-12-08

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