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MCA 4th Semester

Solved

Lab Manual



Part-1

Ignou Lab Manual

Adv. (Dr) P. Prathapan



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MySQL Lab Manual Manish Soni,2024-11-13 This book MySQL Lab Manual is your companion on a journey through the intricate and dynamic world of MySQL an open source relational database management system that has captivated the hearts of developers database administrators and businesses worldwide In a data driven era where information is the lifeblood of organizations mastering a robust and versatile database system like MySQL is of paramount importance This book is tailored to meet the diverse needs of readers whether you re taking your first steps into the realm of databases or you re an experienced database professional looking to deepen your MySQL expertise As you navigate through these pages you ll find the collective wisdom of experienced database professionals developers and MySQL enthusiasts who have contributed to this comprehensive resource We d like to express our gratitude to the MySQL community whose passion and dedication have played an instrumental role in shaping this book We d also like to thank our families friends and colleagues for their unwavering support throughout this endeavour We believe that this book will be a valuable resource on your journey to becoming a MySQL master Whether you re a student a professional or an enthusiast we hope this book equips you with the knowledge and skills you need to harness the full potential of MySQL Laboratory Course Mr. Rohit Manglik,2024-03-03

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Advances in Mechanical Engineering Gaurav Manik,Susheel Kalia,Sushanta Kumar Sahoo,Tarun K. Sharma,Om Prakash Verma,2021-06-26 This book presents the select proceedings of Congress on Advances in Materials Science and Engineering CAMSE 2020 It focuses on the state of the art research development and commercial prospective of recent advances in mechanical engineering The book covers various synthesis and fabrication routes of functional and smart materials for applications in mechanical engineering manufacturing physics chemical and biological sciences metrology optimization and artificial intelligence among others This book will be a useful resource for researchers academicians as well as professionals interested in the highly interdisciplinary field of materials science and mechanical engineering

Engineering and Technical Education in India Pradeep Chaturvedi,2003 Are Prison Reforms Possible?
Reformation and rehabilitation of Prisoners for the safety of the society Adv. (Dr) P. Prathapan, The prisons and Correctional services forms and important wing in the Criminal Justice System But Prisons remain as isolated institution in the society At the same time correction a prisoner is considered as an important and noble work In fact the correctional aspect is generally ignored The book discusses in detail the objectives of imprisonment the situation within the Prisons grievance redressal mechanism existing rehabilitation and welfare activities within Prisons the maintenance of various prisons in India and the initiatives for the development of infrastructure taken by the Governments in various Prisons in India The book also depicts the various observations on Prison conditions rights of Prisoners and suggestion for the overall improvement by Mahatma Gandhi who was a prisoner in South Africa and in India The book intends to bring out the importance of reformation of prisoners for their own rehabilitation and for the sake of the society and points to the possible problem areas where the immediate attention of Policy makers Legislatures and the public spirited citizens are required The book will be useful to Students of Sociology Law Criminology and Social work

Universities Handbook ,2014 **Annual Report** India. Department of Information Technology,2008 **Dictionary of International Biography** ,1997 A biographical record of contemporary achievement together with a key to the location of the original biographical notes

Who's Who in Science and Engineering 2008-2009 Who's Who Marquis,Marquis Who's Who,2007-12 **CHEM 111 Lab Manual General Chemistry** Christofield,2019-08-12 **General Chemistry Laboratory Manual** Petra Van-Koppen,2003 Presents a lab manual for the two semester General Chemistry course This book contains experiments that cover the commonly assigned experiments found in a typical two semester course

Lab Manual to accompany Physical Science Bill Tillery,2008-09-05 General Chemistry Laboratory II YAN-YEUNG LUK,2016-11-02 Lab Manual Course 1 , **Lab Manual** Azimuth Interactive,2005-04-01 *Physical Chemistry Laboratory Manual* Ramesh Kumari,Amirtha Anand,2018-10-05 This book covers the latest syllabus of CBCS pattern of Delhi and other universities for both B Sc Programme and Honours courses A large number of Physical Chemistry Environmental Chemistry Nanoscience Polymer

Chemistry and Analytical Chemistry experiments have been covered using interdisciplinary and innovative methods. The contents include some fundamental chemical concepts: measurement of surface tension and viscosity, colorimetry, determination of order of a reaction, heterogeneous equilibria, adsorption on solid surfaces, thermochemical measurements, conductometric and potentiometric measurements, pHmetry, environmental parameter analysis etc. Wherever possible, two or more methods are given. So the teachers and students will have a choice to make depending on the availability of chemicals, apparatus, instruments, time etc. This book will give them the opportunity to relate theory and practicals for a better understanding of the subject.

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 LDR
- 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
- 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

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