

TITLE OF LAB: LDICA LAB

LIST OF EXPERIMENTS (As per syllabus)

S. No.	Name of the Experiment
	LICA
1	ACTIVE FILTER APPLICATIONS-LPF AND HPF
2	FUNCTION GENERATOR USING 741 OP-AMP
3	VOLTAGE REGULATOR USING IC 723
4	ASTABLE AND MONOSTABLE MULTIVIBRATOR USING 555 TIMER
5	4 BIT DIGITAL TO ANALOG CONVERTER
6	OP-AMP APPLICATION- ADDERS,SUBTRACTOR AND COMPARATOR
	DICA
7	LOGIC GATES
8	HALF ADDER AND HALF SUBTRACTOR
9	FULL ADDER AND FULL SUBTRACTOR
10	3X8 DECODER AND 8X3 ENCODER
11	8X1 MULTIPLEXER AND 1X4 DEMULTIPLEXER
12	4 BIT COMPARATOR-74X85
13	IC 74X74—POSITIVE EDGE TRIGGERED D FLIP FLOP
14	IC 74X109—JK FLIP FLOP
15	IC 74X90—DECADE COUNTER
16	IC 74X194—UNIVERSAL SHIFT REGISTER

Additional Experiments:

S. No.	Name of the Experiment
1	BARREL SHIFTER
2	16X1 MULTIPLEXER

Design Based Experiments:

S. No.	Name of the Experiment
	LICA
1	ACTIVE FILTER APPLICATIONS-LPF AND HPF
2	FUNCTION GENERATOR USING 741 OP-AMP
3	VOLTAGE REGULATOR USING IC 723
4	ASTABLE AND MONOSTABLE MULTIVIBRATOR USING 555 TIMER

Lab Manual For Ldica Lab Manual

Nigel P. Cook, Gary A. Lancaster



Lab Manual For Ldica Lab Manual:

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 Activitie 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 I C 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 liquid 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 Lab Manual Gregory L. Moss,1991 Lab Manual Buchla,2003-07 Lab Manual Tony Cook,1998-10-19 **Lab Manual** Richard M. White,White,Roger W. Doering,1996-11-12 *Lab Manual* Nigel P. Cook,Gary A. Lancaster,2004-02 **Lab Manual for DiPaola/DiPaola's Introduction to Low Voltage Systems, 2nd** Amy DiPaola,2012-06 The Laboratory Manual is a valuable tool designed to enhance your lab experience Lab activities objectives materials **Lab Manual** Azimuth Interactive,2005-04-01 **Lab Manual** Jeffrey S. Beasley,Mark E. Oliver,2004-12 *Lab Manual to Accompany Introductory Electronic Devices and Circuits* ,2000 Lab Manual to accompany Physical Science Bill Tillery,2008-09-05 Lab Manual for Essentials of Biology Sylvia S. Mader, Dr.,2020-01-03 The 25 laboratory sessions in this manual have been designed to introduce beginning students to the major concepts of biology while keeping in mind minimal preparation for sequential laboratory use The laboratories are coordinated with Essentials of Biology a general biology text that covers all fields of biology In addition this Laboratory Manual can be adapted to a variety of course orientations and designs There are a sufficient number of laboratories and exercises within each lab to tailor the laboratory experience as desired Then too many exercises may be performed as demonstrations rather than as student activities thereby shortening the time required to cover a particular concept Lab Manual for Biology Sylvia Mader,2012-01-30 The Biology Laboratory Manual 11 e is written by Dr Sylvia Mader With few exceptions each chapter in the text has an accompanying laboratory exercise in the manual Every laboratory has been written to help students learn the fundamental concepts of biology and the specific

content of the chapter to which the lab relates and to gain a better understanding of the scientific method *Lab Manual*
Suzanne Bell,2005-08-16 *Lab Manual - Troubleshooting, Digital Systems* Jim C. DeLoach, Frank J. Ambrosio,2006-02
 Lab Manual to Accompany Physical Science Bill W. Tillery, Tillery Bill,2006-03 *Lab Solutions Manual* Ronald J.
Tocci, Jim C. DeLoach, Frank J. Ambrosio,2007 Lab Manual (a Design Approach) to Accompany Gregory L. Moss,1998
 Lab Manual, 2/E Beeson,1999-08-12 *Lab Manual* Bogart,2003-09

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