



36325.1 - BASIC ELECTRONIC TRAINER (Digital Gates) has been designed specifically to study the principle of and NAND, NOT, OR, NOR, & EXOR gate. The training board offers a new method of training student in the basic theory of digital circuit and make them familiar with basic experiment in digital circuit. Practical experience on this board carries great educative value for Science and Engineering Students.



OBJECT: Study of basic gates & verification of their truth tables (AND, NAND, NOT, OR, NOR & EX-OR Gate).

FEATURES:-

The board consists of the following built-in parts:

01. +5VDC 100mA Adapter
02. NAND Gate
03. NOT Gate
04. OR Gate
05. NOR Gate
06. EX-OR Gate
07. Switches for logic selection
08. LED's for visual indication of status.
09. The unit is operative on 230V ± 10% at 50Hz A.C. Mains.

36325.2 - BASIC ELECTRONIC TRAINER-2 (Ohm's Law Characteristics) Experimental Training Board has been designed specifically for the verification of Ohm's Law & to study the series and parallel combination of Resistance network. This training board is quite useful for imparting the basic knowledge of voltage and current distribution and the effect of series parallel circuit.



OBJECT:- Verification of ohm's Law.

FEATURES

The board consists of the following built-in parts:

01. 0-20 V D.C. at 50mA, continuously variable regulated Power Supply.
02. D.C. Voltmeter, 0-20V
03. D.C. Current meter 0-200mA
04. Adequate No. of other electronic components.
05. Mains ON/OFF switch, Fuse and Jewel light.

Note: Specifications are subject to change.

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36325.3 - BASIC ELECTRONIC TRAINER

(Operational Amplifier) has been designed specifically for the study of OP-AMPIC.



LIST OF EXPERIMENTS:-

01. Inverting Amplifier
02. Non-inverting Amplifier
03. Voltage Follower (unity Gain Buffer Amplifier)
04. Inverting Summing Amplifier
05. Non-inverting Summing Amplifier
06. Subtractor & Differential Amplifier
07. Division By A Constant
08. Square Wave Generator
09. Off-set Adjustment In Op-amp Circuits
 - 9.1 For Inverting Amplifier
 - 9.2 For Non-inverting Amplifier
 - 9.3 For Voltage Follower
10. Measurement Of Input Offset Voltage (v_{io})

FEATURES

01. $\pm 15V$ at 100mA IC Regulated power supply
02. Two 0-5V at 20mA continuously variable power supply
03. One Op-Amp IC-741
04. DC Voltmeter 0-5V
05. DC Voltmeter 0-20V
06. Potentiometer 10K
07. 10 resistance and 1 Capacitor
08. Mains ON/OFF switch fuse Neon Indicator

OTHER APPARATUS REQUIRED:

01. 20MHZ Cathode Ray Oscilloscope
02. Sine Square Wave Oscillator
03. Digital Multimeter

36325.4 - BASIC ELECTRONIC TRAINER (Zener Diode Characteristics) Experimental Training Board has been designed specifically for plotting the forward and reverse bias characteristics of a Germanium semiconductor Diode, and a Zener Diode. The board is absolutely self contained and requires no other apparatus.

OBJECT: To Study And Plot The Forward & Reverse Bias (breakdown) Characteristics of a Zener Diode.



Note: Specifications are subject to change.

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36325.5 - BASIC ELECTRONIC TRAINER (PN Junction Diode Characteristics) Experimental Training Board has been designed specifically for plotting the forward and reverse bias characteristics of a Germanium semiconductor Diode, and a Zener Diode.



OBJECT: To study and plot the forward & reverse bias characteristics of a Germanium semiconductor Diode.

FEATURES

The board consists of the following built-in parts :

01. 0-10V DC at 100mA, continuously variable regulated Power Supply with low ripple & hum and integral current limiting resistor.
02. DC Voltmeter, Dual range of 1/10V
03. DC Current meter dual range 50uA/10mA
04. A Germanium semiconductor Diode mounted behind the panel.
05. A Zener Diode mounted behind the panel.
06. Adequate no. of other electronic components.
07. Mains ON/OFF switch, Fuse and Jewel light.
 - The unit is operative on 230V \pm 10% at 50Hz A.C. Mains.

36325.6 - BASIC ELECTRONIC TRAINER (Domestic Ac Mains Supply Trainer) is used to understand the wiring of Domestic AC mains supply. On the panel complete house wiring (after energy meter) is shown but after distribution board wiring is provided. To understand the room wiring of room 1 & room 2 are shown with dotted line on the panel. A three pin socket (5Amp) & a switch in Room 1 and two pin socket & a switch in Room 2 are provided on the panel

