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| <b>Product Name :</b><br>Electricity Lab Trainer                   | <b>Product Code :</b><br>NLAB-EDUSCHOOLEQ197018 |
|                                                                    |                                                 |
| <b>Description :</b>                                               |                                                 |
| Electricity Lab Trainer                                            |                                                 |
| <b>Technical Specification :</b>                                   |                                                 |
| SCOPE OF LEARNING:                                                 |                                                 |
| SERIES COMBINATION OF BULBS.                                       |                                                 |
| PARALLEL COMBINATION OF BULBS.                                     |                                                 |
| OPERATION OF RELAY.                                                |                                                 |
| OPERATION OF DPDT SWITCH.                                          |                                                 |
| OPERATION OF MAGNETIC COMPASS.                                     |                                                 |
| STUDY OF BAR MAGNET.                                               |                                                 |
| STUDY OF ELECTROMAGNETISM THROUGH ELECTROMAGNETIC COILS AND CORES. |                                                 |
| STUDY OF RESISTOR.                                                 |                                                 |
| STUDY OF CAPACITOR.                                                |                                                 |
| STUDY OF DIODE.                                                    |                                                 |
| STUDY OF TRANSFORMER.                                              |                                                 |
| STUDY OF OHM'S LAW.                                                |                                                 |
| TECHNICAL SPECIFICATIONS:                                          |                                                 |
| ONE NUMBER OF AC VOLTMETER: 15V                                    |                                                 |
| ONE NUMBER OF DC VOLTMETER : 30V                                   |                                                 |

ONE NUMBER OF GALVANOMETER:  $\pm 600\mu A$

ONE NUMBER OF DC AMPERE METER: 0.5AMP.

ONE NUMBER OF DC AMPERE METER: 5A

POWER SUPPLIES: POWER SUPPLY: 2- 12V AC/DC AT 3.5A, POWER SUPPLY: 30VDC AT 500A, POWER SUPPLY: 15VDC AT 500MA.

ONE NUMBER OF SPDT SWITCH.

ONE NUMBER OF DPDT SWITCH.

ONE NUMBER OF PUSH SWITCH.

TWO NUMBER OF LOGIC SWITCHES.

ONE NUMBER OF RELAY 12VDC.

ONE NUMBER OF BUZZER/CONTINUITY TESTER.

THREE NUMBER OF BULB (6 V, 0.3A).

RESISTANCE 1E2/1W, 5E/5W, 50E/5W, 100E/5W, 220E/2W, 470E/2W, 1K/1W, 100K/1W.

TWO NUMBER OF CAPACITANCE 1000MFD/50V.

TWO NUMBER OF DIODE IN4007.

ONE NUMBER OF LED (5MM).

ONE NUMBER OF POTENTIOMETER (10K).

ONE NUMBER OF BREADBOARD (840 TIE POINTS).

ONE NUMBER OF FUSE HOLDERS (OPEN TYPE).

ELECTROMAGNETIC INDUCTION&TRANSFORMER.

MAIN SUPPLY 230VAC, 50 HZ.

SALIENT FEATURES:

Twelve numbers of patch cords/ connecting leads.

Three numbers of magnets (two number of bar type, one number of horseshoe (u) type).

One number of coil (100 turns) and 200 turns

Glass Fuses - 10 nos. 0.5a

Compass - 1 no.

Core - 1 set of e& i with bolt

IC - And (IC 7408), Or (IC 7432), Not (7404) and Ex-or gate (ic7486)

Front Panel Built With High Class Insulated Printed Circuit Board Sheet With Well Printed Circuits And Symbols.

Fuse For Short Circuit Protection

Instruction Manual.

Connections are brought out through 2mm Brass Sockets.

Patch Cords 2mm.

The trainer is housed in ABS Plastic cabinet.

Size of the trainer set 12"x10"

## Naugralabequipments

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