



OMEGA TYPE LTB-843 Digital IC Trainer (TTL) has been designed for verification of the truth table of logic gates and address etc. Students can be trained about the digital ICs by using this board. The fundamentals of the digital ICs can easily be understood by performing required experiments for verification of truth table of logic gates. Quite large area of the bread board has been provided on the panel for ICs. Students can make the circuits easily on the bread board with the help of other accessories which have been provided on the panel.

Practical experience on this board carries great educative value for Science and Engineering Students.

OBJECT:- STUDY OF FOLLOWING GATES & VERIFICATION OF THEIR TRUTH TABLE:

- 01 Study and verification of OR gate using IC-7432
- 02 Study and verification of AND gate using IC-7408
- 03 Study and verification of NOT gate using IC-7404
- 04 Study and verification of NAND gate using IC-7400
- 05 Study and verification of NOR gate using IC-7402
- 06 Study and verification of EXCLUSIVE -OR (EX-OR) gate using IC-7486
- 07 Study OR, AND & NOT gate using PC

SPECIFICATIONS

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|----|---|---|---|---|
| 01 | OUTPUT D.C. VOLTAGE | : | Fixed 5V \pm 1%. | |
| 02 | OUTPUT CURRENT | : | 1.5 Amp. | |
| 03 | LOAD REGULATION
(NO LOAD TO FULL LOAD) | : | \pm 1% of the highest specified output voltage. | |
| 04 | RIPPLE AND NOISE | : | less than 5 mV. | |
| 05 | VARIABLE CLOCK FREQUENCY | : | 1 Hz -100 Hz
100 Hz -10 KHz
10 KHz - 1 MHz | } by three way selector switch for multiplier & two potentiometers one for Coarse & other for Fine control. |
| 06 | LOGIC INPUTS | : | Four switches for High/Low. | |
| 07 | OUTPUT INDICATORS | : | Four 5 mm bright Red LEDs. | |
| 08 | SEVEN SEGMENT DISPLAY | : | 1 digit seven segment display with decoder driver. | |
| 09 | BREAD BOARD | : | Two Half main strip for connections &
One full main strip each set for ICs. | |
| 10 | LOGIC GATES PROVIDED | : | NAND (7400), NOR (7402), NOT (7404) AND (7408), OR (7432), & EX-OR (7486) | |
| 11 | EXTRA FEATURES | : | Other ICs can also be used to perform required experiments with any gates/ address etc. | |
| 12 | INPUT VOLTAGE | : | 230 V \pm 10% at 50 Hz A.C. Mains. | |
| 13 | Weight | : | 2.100 Kg. (Approx). | |
| 14 | Dimension | : | W 340 x H125 x D 210 | |
| 15 | Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References. | | | |

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.