CEE 2023

LINEAR IC TRAINER

The Instrument consists of :-

1. DC Regulated Power Supply of : 0 to 5V/ 100mA (Two Nos.)
   ± 12V/ 250mA
   + 5V/ 250mA
   12V/250mA AC
2. IC 741, IC 723, & IC 555 is mounted on front panel with there Pin no. & socket for connection
3. Various Resistance , Capacitor, Diode, Zener Diode, LED, Potentiometer are fitted on inside of Panel with sockets.
4. Required circuit Diagram & Patch cords are provided with instruments.

The 'CROWN' made Linear IC Trainer to study the following:-

1. IC 723 as Variable Voltage Regulator
2. Measurement of input bias current of an op-amp.
3. Measurement of output off-set voltage of an op-amp.
4. To eliminate output off-set of an op-amp.
5. Measurement of slew rate of an op-amp.
6. Measurement of closed loop gain.
7. Op-amp as V-I converter.
8. Op-amp as I-V Converter.
9. Op-amp as current amplifier.
10. Clipper Circuit Using op- amp.
11. Clamper Circuit Using op-amp.
12. Op-amp as Schmitt Trigger.
13. Op-amp as Inverting and non Inverting amp.
14. Op-amp as Voltage Buffer.
15. Op-amp as Logarithmic Amplifier.
16. Op-amp as VCCS.
17. Op-amp as Wein Bridge Oscillator.
18. Op-amp as Twin –T Oscillator.
19. Op-amp as Square Wave Generator.
20. Op-amp as Adder and Subtractor.
21. Op-amp as Integrator and Differentiator.
22. L.P.F and H.P.F Using op-amp.
23. Band Pass and Reject Filter Using op-amp.
24. Limiter Using op-amp.
25. Op-amp as comparator.
26. 555 as Astable Multi vibrator.
27. 555 as Monosatable Multi vibrator.
28. 555 as Bistable Multi vibrator.
29. 555 as a Square Wave Generator (2KHz-13KHz).
30. 555 as a Triangular Wave Generator.
31. 555 as V-F Convertor.

OPTIONAL ACC.

* DC-20MHz Dual Trace Oscilloscope.
* Function Generator 1Hz to 1MHz.