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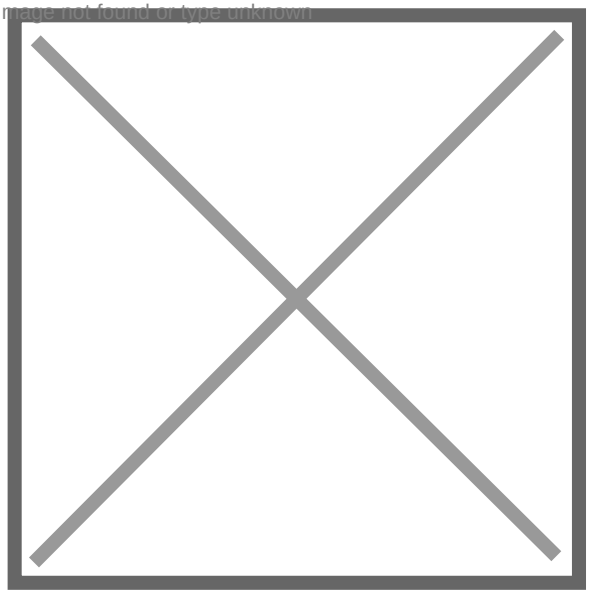
Product Name :

Equipment Kit for Demonstrating Electrical Experiments

Product Code :

SCL-367/017

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Description :

Equipment Kit for Demonstrating Electrical Experiments (Product Code: SCL-367/017) is a bench kit of semiconductor components, resistors and meters used to demonstrate basicelectrical and electronic circuits in secondary school and college physics labs. It pairs a 2N2222NPN transistor, a 5.1 V Zener diode and two 1N4007 diodes with a digital multimeter, a 0–10 VDC voltmeter and a 0–5 A ammeter. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Transistor	2N2222 NPN transistor
Zener diode	5.1 V
Diodes	Two, model 1N4007
Resistors	One 1 k? and three 100 k?
Multimeter	Digital multimeter
DC voltmeter	0–10 V
Ammeter	0–5 A
Rheostat	22 ?, 3.3 A
Connection circuit	Circuit suitable for connecting 4 mm head cables
Other items	Metal ruler, switch button, universal clamp
Product code	SCL-367/017
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Electrical Experiments Kit Used For?

The kit covers the core semiconductor and circuit practicals in one box. With the 1N4007 diodes, students show that current flows in one direction only and plot forward and reverse characteristics; the 5.1 V Zener diode demonstrates voltage regulation once its breakdown voltage is reached; and the 2N2222 NPN transistor can be wired as a simple switch. The 1 k? and 100 k? resistors set the currents in these circuits, while the voltmeter, ammeter and multimeter record what happens.

Build each circuit on the 4 mm connection board with the supply switched off, connect a suitable low-voltage DC source from your laboratory, set the 22 ? rheostat to maximum resistance before switching on, and raise the current gradually so no component is overloaded. Check polarity carefully, since diodes and transistors only work the right way round. As a Zener diode kit for schools and colleges in India and abroad, it lets one teacher demonstrate several syllabus exper

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