DEPARTMENT OF PHYSICS

List of Equipments

SINo		Specification	Quantity		
1	LED Characteristics	• a DC regulated power	3		
1	Apparatus	supply with a range of			
	rppuluus	0-3V and a current			
		output of 150mA.			
		• meters for measuring			
		voltage and current, as			
		well as an L.E.D.			
		mounted on the pane.			
		a supportions for the			
		• connections for the			
		LED are accessible			
		through Amm sockets			
	IDD Classistics	LDB Characteristics Apparatus	3		
2	LDR Characteristics	LDR Characteristics Apparates			
	Kit	a DC regulated power supply			
	ъ.	that has a range of 0-			
	× .	3V/150mA			
		two round meters for			
		measuring voltage and current,			
		and			
		an LDR mounted on the panel.			
		Connections for supplies and			
		LED are available at 4mm			
		sockets.			
3	Photo diode	Built in DC power supply/	2		
5	characteristics kit	regulated power supply, (0-5/10			
· ·	•	V DC) two meters for voltage &			
		current measurement,			
		built in light source with			
		regulator photo diode should be	1997 - 19		
		visible from the window give			
		on the front panel. Circuit/			
		symbols should be printed			
		nicely on the front panel of the			
		epoxy PCB with 2 mm	,		
		connecting terminals.			
			а. — — — — — — — — — — — — — — — — — — —		
			2		
4	Apparatus to	Variable voltage source •	5		
	determine Planck's	Range: 0–1.95 V Variable •			
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A CONTRACTOR					
		KOLLAM			
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	Constant		
	of at least 4 different	Resolution: 1mV • Accuracy=	
	colours	Range: 0–2000µA • Resolution:	
5		$1\mu A \cdot Accuracy= 0.2 \%$	
5	Band Gap energy apparatus – Apparatus to Study the variation of	 * Inbuilt Variable DC Regulated Power Supply of 0- 20V DC. * Temperature Controlled 	3
	semiconductor with temperature and determination of band gap	Electric oven to heat up the Diode. * Mercury thermometer is mounted on front panel to measure the temperature of oven * Volt Meter Range of 20V DC for measure the Voltages. * Current Motor Panese of	
		 * Current Meter Range of 500mA for measure the Current. * PN Junction Diode placed inside the oven & connection brought out at the sockets. 	
6	Heating Mantle – 500 ml (220 V)with overheat protection	*with Pilot Lamp and Energy regulator	3
7	Lux Meter	Spectral range: 350 nm – 750 nm	2
8	Solar Cell Characteristics Apparatus	Solar panel with 5V output and 500mA current Should include a voltmeter for accurate voltage measurements	2
9	Seebeck and Peltier Demonstrator	Display LCD (16 x 2) Temperature Range : 0 - 150°C Resolution : 0.1°C Voltage Range : 0 - 2000mV Resolution : 0.1mV Glass Beaker : 250ml Fan : 3V Adaptor Input : 220 - 240V, 50 / 60Hz Adaptor Output : 5V, 1A Dimension (mm) : W 250 x D 300 x H 20	2
0	Bread board		3
1	IC regulated Battery Eliminator	2-12 V	0
2	Digital multimeter	True RMS Auto ranging 1000V DC 750V AC 10A DC AC	3
	Ammeter	0-100mA,0-500mA, 0-200μA-	3 ranges x3no.s=9
I		three ranges	0 0 0

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	1		10
15	Rheostat	100 ohm, 2 Amp	10
16	Travelling microscope	 18cm horizontal movement and 14cm verticle movement. The Microscope movable parts in brass with nicely sand blasted and Chrome plated. 10X Ramsden's eyepiece. 	4
17	Polarimeter 200mm Optical Rotation Measurement Polarimetry Analytical Instrument Chiral Compounds Analysis Optical Activity Specific Rotation	• With sample holder	
18	Circular coil - MAGNETIC FIELD ALONG THE AXIS OF CIRCULAR COIL (HALF METER)		2
19	Dielectric constant set up	For solid, liquid and powders With test capacitor, variable capacitor and dielectric materia	1

Punthialm

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