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	SAP ID - 60004 20013 2 Div : J1
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	Experiment 4: Zener diode
	n st becodyattore sestupous evap yt lane test to
1->	Write any one application based on this experiment related
-	to core branch.
	The main application of zener dide is as the voltage
	regulator.
17327/	e) Overvoltage protection is done by using zener diade because
	there is current flowing through the diode after the
-	reverse bias voltage exceeds certain value.
83	3) Normally, current should not exceed conventional value, but
	if there is a fault, and current exceeds maximum allowable
514313	value, system can be damaged permanently and to avoid
	unatable performance, zener diodes are used where voltage
	reference is required like chameters, ammeters, etc.
	4) Zener diode works as voltage regulator if it is introduced
1	in the circuit and is driven by current source
Y 2 7.9	5) To limit the current through zener diade , series resistance
	R is introduced whose value is given by equation
-	Resistor (R) = V1-V2
*	Zener diode + Load cuprent
	6) Tener diade produces a stable performances of references
	voltage across the load which fullful the criteria of
	regulator.
	Flectronic voltage regulators are found in devices such as
	computer power supplies where they stabilize the DC
YOUR	voltages used by the processor and other elements.
	8) UPS is voltage regulator for computer. It is very
	important to buy UPS to protect your data and sudden
	Interpretation of bonser.
	9) Apast from that, computer has smes or Psu which does
	the regulation process but if it is poorly manifactured
	a least milacinica

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	SECONDO DE PAR
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	or low quality, your computer's motherboard is under
Comment of	risk. Its components may burn or wear out in such
	cases.
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	Explain any other technique or experiment other than the
	one performed which will achieve the result and twifill the
5.27	aim of the experiment of productions
	- strick stories sporred sporter soid sorrer
Ans	There is a series resistor connected to the circuit
	in order to limit the current in the dode It is
	connected to positive terminal of d. c. and work in such a
poller s	way that reverse biased can also work in the breakdown
	conditions. When minimum input voltage and maximum
boschada	load surrent is applied, zener diode current
	should always be minimum. Since, input voltage and
	required output voltage is known, choose a zener
7)	diode with TOVZ = VLI SULON DOOMS ASSUBATED SE
	Res. In Good & Short 1919
	Regulated voltage Vz)
	control of the state of the sta
SA 4318	Value of series resistor PS = (VL-VZ)IL
	current through diode increases when voltage in
	diode decreoses, hence voltage drop across resistor
	is very less and output voltage results normally.
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	server to progressed
2006	could be a series and support took and expense
	was placed as to be took selecting individual and