Con. 2519-09.

## Bosic Electronics. (REVISED COURSE)

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(3 Hours)

[ Total Marks: 100

	N.B.	(1) Question No. 1 is compulsory. (2) Attempt any four questions out of remaining six questions.	N
1.	(a)	Explain the operation of Zanier diode in the forward and reverse biased condition and draw its characteristics.	10
	(b)		10
2.	(a)	Write a notes on :—  (i) Thermal stabilization  (ii) Compensation.	10
	(b)		10
3.	(a)	Draw the h-parameter model of a transistor CE amplifier and derive equation for Av. Ri, Ro and Ai.	10
	(b)	(12) [14] [15] [16] [16] [16] [16] [16] [16] [16] [16	10
4.	(a)	Explain the construction, characteristics and working of a typical JFET used for the voltage amplification.	10
	(b)		10
5.	(a) (b)	Explain the operation	10 10
	(-)		10
6.	(a) (b)	Explain the AC analysis of dual input balanced output differential amplifier.  Write a short notes on :—	10
		(i) LED (iii) Solar sell (iv) Optoisolators.	
7	(a)		10
	(b)	waveform. Write a short notes on any two :—  (i) Schottkey diode  (ii) Varactor diode	10
		(iii) PIN diode.	