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Roll No

CS/IT - 304

B.E. III Semester

Examination, December 2016

Electronics Devices and Circuits

Time: Three Hours

Maximum Marks: 70

Note: Attempt any five questions. All questions carry equal marks.

1.	a)	Explain construction, features and ap	plications of Zener
		diode.	7

- Explain the applications of p-n diode in our life.
- 2. a) Differentiate negative and positive feedback.
 - b) Differentiate class A, class B and class C amplifiers.
- 3. a) Draw and explain RC phase shift oscillator.
 - b) Draw and explain monostable multivibrator.
- 4. a) Draw and differentiate clipper and clamper circuit.
 - b) What is operational amplifier? Write its characteristics.
- a) Draw inverting and non-inverting amplifier and write equation for gain.
 - b) Draw and explain integrator circuit using Op-Amp.
- 6. a) Define slew rate and CMRR.
 - b) Explain the concept of Boot strapping and Darlington pair.

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7.	a)	Explain how a Zener diode can regulator.	be used as a	voltag
	b)	Write a short note on UPS.		
8.	Wr	rite short notes on any two:		1
	a)	SMPS		
	b)	555 timer		
	c)	Log amplifier		

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