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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 applications of Zener			
		diode.		7	

- b) Explain the applications of p-n diode in our life.
- a) Differentiate negative and positive feedback.
 - b) Differentiate class A, class B and class C amplifiers. 7
- 3. a) Draw and explain RC phase shift oscillator.
 - b) Draw and explain monostable multivibrator.
- 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.

5) Explain the concept of Boot strapping and Darmigton pain.

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7.	a)	Explain how a Zener diode can be used as a vo regulator.	ltag
	b)	Write a short note on UPS.	
8.	Wr	ite short notes on any two:	1

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a) SMPS

b) 555 timer

c) Log amplifier

d) LED

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