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Name :			

Fourth Semester B.Tech. Degree (Reg./Sup./Imp. – Including Part Time) Examination, May 2013 (2007 Admn. Onwards) PT 2K6/2K6 EC/AEI 405 : ELECTRONIC CIRCUITS – II

Time: 3 Hours

Max. Marks: 100

PART-A

Answer all questions.

1.	a)	Draw and explain transistor switch with output waveforms.	5
	b)	Explain the principle of pulse transformer.	5
	c)	Design a astable multivibrator with equal ON-OFF period using IC 555.	5
	d)	Explain the concept of collector coupled monoshot.	5
	e)	Explain lock range and capture range in PLL.	5
	f)	Explain one application of PLL.	5
	g)	Explain the following terms :	
		i) Accuracy	
		ii) Resolution.	5
	h)	Explain the principle of binary weighted DAC.	5
		PART-B	
2.	a)	Construct a RC integrator and explain.	7
	b)	Construct a differentiator with RC circuit and explain.	8
		OR	
3.		aw the circuit of CMOS inverter and explain the operation. Also discuss the namic power dissipation.	15
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4.	Explain astable and bistable operations using a current controlled negative resistance device. OR	15
5.	Draw and explain collector coupled astable multivibrator with necessary waveforms.	15
6.	Explain the concepts of voltage and current time base generators. OR	15
7.	Draw a current starved VCO and explain its operation. What are its limitations $\ensuremath{?}$	15
8.	Explain the operation of cyclic and pipeline DACs. OR	15
9.	Explain the successive approximation ADC with an example.	15

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