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B.Tech. (Common for all Branches) 2nd Semester

F. Scheme Examination, May-2015

BASIC OF ELECTRONICS

Paper-ECE-101-F

Time allowed: 3 hours] [Maximum marks: 100]

Note: Attempt one question from each section and

Question No. 1 is compulsory.				
1.	(a)	State drift and diffusion currents.		
	(b)	Why LED's emit light of different colours?		
	(c)	Discuss Barkhausan criteria for oscillations?		
	(d)	Convert $(236)_8 = ()_{16} $ 20		

Section-A

2.	(a)	Discuss block diagram of op-amp.	10
	(b)	Give characteristics of an op-amp.	10
3.	(a)	Explain working of SMPS.	10
	(b)	Discuss voltage regulators.	10

3.	(a)	Explain working of SMPS.	10
	(b)	Discuss voltage regulators.	10
		Section-B	
4.	Wha	at are universal gates? Explain.	20
5.	(a)	Explain Cathode Ray Oscilloscope a applications.	and give its
	(b)	Differentiate combinational and circuits.	sequentia 10

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10

Section-C

6.	(a)	Explain seven segment display with diagram.	10
	(b)	Discuss Dot-matrix display.	10
7.		at is LCD's? Give its different types and also guarages and disadvantages of LCD's.	give 20

Section-D

8.	Draw and explain frequency respon	se curve and working
	of RC-coupled amplifier.	. 20

- What is feedback amplifier? Discuss the effect 9. of -ve feedback on amplifier on gain and bandwidth. 10
 - (b) Explain RC-phase shift oscillator.

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