Seat	
No.	

Subject: Fundamentals of Electronics & Computers

Code: 59184

First Year Sem I and II (New Course)

\* Note - Use only one Answer Book for the Section 1 & H

Day and Date: Wednesday, 28-05-2014		Time: 10 a.m. to 1.00	p.m.
		Total Marks:	: 100
Instr	uctions: 1) Q. No.1 from Section I & Q No. 8 from 2) Solve any two from Q.No. 2, 3 & 4 from 3) Assume suitable data wherever neces 4) Solve any two from Q. No.5, 6 & 7 from P. No.5, 6 &	rom Section I sary.	у.
	SECTION - I		
Q.1	a) With a suitable block schematic, explain working supply.	ng of a Regulated Power	08
	b) Explain with truth table, working of derived gat	es.	08
Q.2	a) Explain any one of the displacement transducer	s with a diagram.	08
-	b) What is RTD? How it is used for a temperature		08
Q.3	a) How transister (BJT) Operates in Common Emwith i/p and o/p characteristics.	itter configurations? Explain	08
	b) What is Operating Point? Draw and explain wit	h AC/DC loadline.	98
0.4	Short Notes (any three)		
	a) R.S. flip flop		06
	b) Digital Thermometer		06
	c) Micro wave oven		06
	d) R. C. coupled amplifier		06

## SECTION-II

Q.5	<ul><li>a) Give and discuss any four applications of computers in various areas.</li><li>b) Enlist different input &amp; output devices that can be connected to a compute Give details.</li></ul>				
Q.6	a) What is an operating system? Give features of windows 7 operating system. b) Convert the following binary nos to their decimal equivalents (also explain the procedure)  (ii) (0101001) <sub>2</sub>	08 e			
	$(i) (110010)_2$ $(ii) (1101101)_2$ $(iv) (1110011)_2$	80			
0.7	a) Explain the following Linux/Unix commands				
Q.7	(10) an $(10)$ WC	08			
	(i) rm (ii) Is (III) cp b) What is the difference between a compiler & an interpreter.				
Q.S		18			
	(i) Types of networks.  (ii) Word Processors				
	(iii) Generations of computers				
	(iv) Operating system functions.				