Pre. Ph.D. Course Work (2017 Course): (Electronic Engg.): SUMMER - 2019

SUBJECT: PAPER – II: RECENT ADVANCES IN ELECTRONICS ENGINEERING

Day Date		ednesday /04/2019 S-2019-5364	Time: 10.00 AM TO 1.00 PM Max. Marks: 100	
N. B. :	1) 2) 3) 4) 5)	Attempt ANY FIVE questions from each section. Figures to the right indicate FULL marks. Answers to both the sections should be written in SEPARATE answer books. Draw neat and labelled diagrams WHEREVER necessary. Assume suitable data, if necessary.		
SECTION – I				
Q. 1		Which are the optimization techniques? Explain optimization techniques (10 w.r.t. Engineering.		0)
Q. 2		What are the major operations in speexamples.	eech processing? Describe using (10	0)
Q. 3		Using suitable diagrams, discuss wavegui	des. (10))
Q. 4		Discuss the state of art of MIMO and OF	DM. (10	0)
Q. 5		What is CNT? What are the applications of	of CNT in nano electronics? (10	0)
Q. 6		Using suitable diagrams, explain spintron	ic devices. (10	0)
SECTION – II				
Q. 7		What are the invasive and non-invasive examples.	techniques? Explain using suitable (10	0)
Q. 8		What are the IOT enable processors? Give	e a brief overview. (10	0)
Q. 9		What are the deep learning techniques? D	riscuss in detail. (10	0)
Q.10		Discuss RBF network training algorithm.	(10	0)
Q.11		What are the trends of Deep Submicron V	LSI Design? Describe in detail. (10	0)
Q.12	a)	Discuss following using suitable example Fitness function	s: (10	0)
	b)	Genetic operations		

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