MASTER OF TECHNOLOGY (ELECTRONICS - VLSI) (CBCS - 2015 COURSE) M. Tech. (Electronics - VLSI) Sem-IV :SUMMER- 2022 SUBJECT : SELF-STUDY PAPER-II:GENETIC ALGORITHMS FOR VLSI DESIGN

Wednesd 15-06-20		Time: 10:00 AM-01:00 Max. Marks: 60	0 PM
N.B.:			
1	· -		
2			
3	•	•	
4) Use separate answer books for b	ooth sections.	
	SEC	TION-I	
Q.1	How digital ASICs are implemented	ed? Explain in detail.	(10)
		OR	
Q.1	What are the hardware implementa	ation methods in VLSI? Describe in detail.	(10)
Q.2	What are the components of GA ba	ased optimization engine?	(10)
		OR	
Q.2	What is multi-objective GA? How	it is implemented?	(10)
Q.3	How floor planning using sequence	e pair representation is done?	(10)
		OR	
Q.3	How multi-objective optimization	is done?	(10)
	SE	CCTION-II	
Q.4	Describe Pseudo-Random Number	Generation with reference to GA.	(10)
		OR	
Q.4	What is FPGA based GA? How it is	s implemented?	(10)
Q.5	Discuss Genetic Algorithm v/s Cor	nventional algorithm.	(10)
	•	OR	` ,
Q.5	What are the applications of Genet		(10)
V .0	what are the approached of General	e mgondini.	(10)
Q.6	Describe Genetic Encoding.		(10)
		OR	
Q.6	Explain local improvements with re	espect to GA.	(10)
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