Q.P. (	Q.P. Code: 19EC4212												
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		M Tool		ar II (	Somo	(AU	TON(	DMOU	IS) amin	otion		obor 2020	
		wi. recr	ALG	ar ii s ORIT	'HMS	FOR	VLSI	I DES	amin IGN A		MAT	IODer-2020	
						- 0	(VL	SI)					
Time:	3 hours										<b>.</b> .	Max. M	arks: 60
				(A	Answe	r all F	ive Ur	nits 5 x	x 12 =	60 M	arks)		
								<u>IT-I</u>					~
1	What a	are the s	evera	l purp	ose m	ethods	s for co	ombin	ationa	l optir	nizatio	on? Explain brie	fly. <b>12M</b>
2	<b>UK</b> 2. a How combinational optimization is achieved using Local and Tabu search?												
2	<b>b</b> Explain the following: (i) Backtracking. (ii) Branch and bound programm											ogramming	6M
3	• 9 What is layout compaction? Explain algorithms for constrained graph compaction											n <b>6M</b>	
U	<b>b</b> Explain about the important abstraction levels that are necessary for a specific											6M	
	simulation tool.												
							(	OR					
4	4 With suitable examples explain the switch level modeling and simulation.												<b>12M</b>
	UNIT-III												
5	Explai	n how F	ROBE	D can	ı be us	sed for	comb	oinatio	nal op	timiza	ation.		12M
							(	OR					
6	a Draw Binary-Decision diagrams for an Inverter.									6M			
	<b>b</b> Write short notes of logic synthesis											6M	
-	т·,	0 1			1	1 11		<u>  -   </u>					
7	a List	æ expl	ain ar	iy two wal Tr	schec	luling	algori	thms.					6M GM
	D Des		ign-ie	vei 11	ansio	matio	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	)B					UIVI
8	8 Explain the following algorithms												
Ū	a ASA	AP algo	rithm	-88									<b>6M</b>
	<b>b</b> Mo	bility ba	used so	chedul	ling.								<b>6M</b>
							UN	IT-V					
9	<b>a</b> Exp	lain the	types	of log	gic blo	ocks fo	or FPC	BA wit	h neat	sketc	hes.		<b>6M</b>
	<b>b</b> Develop a routing algorithm for the Non-segmented model.												<b>6</b> M
							(	OR					
10	a Hov	<i>w</i> the ro	uting	netwo	rk is r	nodele	ed in F	FPGA?			_	<u> </u>	6M
	<b>b</b> Dise	cuss th	e rou	iting	Algo	ithm	for s	tagger	red m	odel	and	compare it wit	th <b>6M</b>
	segi	mentatio	on mo	del.									

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