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R13

No: 126EN

B.Tech III Year II Semester Examinations, May - 2016 VLSI DESIGN

lime: 3 ho		ronics and Comm	unication Engin		ax. Marks: 75	
cons	s question paper con A is compulsory sists of 5 Units. An marks and may have	swer any one full	question from 6			K9
	K9	PAR	Т - А	K9	(25 Marks)	
b) Dra c) Def d) Exp ë) Def f) Exp g) Exp h) Dra i) Exp	ine g _m of MOS tran w transfer characte ine scaling and expolain difference betwine delay and explain the importance plain the difference w 2-bit comparator plain difference betwine controllability and incontrollability and incomparation.	ristics of CMOS is lain it. veen stick diagram in different time of wiring capacities between EPROM . veen PLA and PA and observability	m and layout dia delays in gate le tance of a MOS and EEPROM.	vel modeling. transistor.	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2] [3]	K9
		FAK	1 - D		(50 Marks)	
* * *X*	w the fabrication st	* * ***	D	* * ***	* * ***	*
	w the flow chart o					
b) Dra 5. Wh	w the stick diagram at is the purpose of erent approaches for tacts between poly	or describing the	design rule? Gi	ve three approach	[6+4] ? What are the hes for making [10]	K9
tech	w and explain fa nologies, interpolation fa lain different wirin	in in its	* * * * * * * * * * * * * * * * * * *	M	* * * *	ki iji
	at are the alternate tch by taking NANI	gate circuits ava	ailable? Explain	any one of item	n with suitable [10]	
	K9			K.		* 4 * X * A * A * A * A * A * A * A * A * A

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Draw		diagram of 4-bit a	ndder and explain	in its operation. its operation in description in		KS				
b) Desig	n a four bit parit	y generator using	only XOR gates	s and draw the Sche	ematic of it. [5+5]					
b) What	is the drawback	of serial scan? H	ow to overcome OR		[5+5]	K9				
Briefly Explain different parameters influencing low power design in detail.What is sequential fault grading? Explain how it is analyzed. [5+5]										
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