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MEVD-201

M. E./M. Tech. (Second Semester) EXAMINATION, Oct., 2009 VLSI TECHNOLOGY

(MEVD-201)

Time: Three Hours

Maximum Marks: 100

		Minimum Pass Marks: 40	
N	ote :	Attempt any five questions. All questions carry ed marks.	ļua
1	(a)	Explain oxidation and diffusion process for fabrication.	I _C
	(b)	What are the purposes of oxidation? Explain poxidation evaluation.	ost-
2	(a)	Describe CVD and MOCVD.	10
	(b)	Explain SOS and SOI.	10
3.	(a)	Discuss the ten step photomasking process we positive and negative resist.	vith 10
	(b)	Explain ion-implantation and X-ray lithography.	10
4.	(a)	Describe formation of doped region and junction diffusion.	by 10
	(b)	Discuss the process of preparation of electronic grasilicon from raw silicon.	.10
5.	(a)	Describe plasma-enhanced CVD.	10
	(b)	Explain drive in oxidation and kinetics of oxidation.	
			10
6.	(a)	Explain basics of photoresist chemistry and impla- damage.	int 10
	(b)	Explain the crystal growth, slicing and marking.	10
7.	Exp	lain any two of the following terms: 10 ea	ch
	(a)	Diffusion process steps	
	(b)	Low pressure CVD	
	(c)	Deal Grove model	