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(Following Paper ID and QQM No. to be filled in your com			
Parage 11)	Answer Books)		
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B. TECH.			
Theory Examination (Semester-VI) 2015-16			
INTEGRATED CIRCUIT TECHNOLOGY			
Time: 3 H	Hours Max. Marks: 100		
	Section-A		
Q1. Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2×10=20)			
(a)	List the basic process for IC fabrication.		
(b)	Explain the purpose of oxidation.		
(c)	Compare proximity printing and projection printing.		
(d)	What are plasma deposition reactors? Why and how these are used?		
(e)	What are the widely used materials for film deposition.		
(f)	Explain photomask and photoresist.		
(I) P.T.O.			
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- Discuss diffusion. Find diffusion constants for: Q4. (a)
 - (i) Interstitial diffusion
 - (ii) Substitutional diffusion
 - Give reasons and explain why NPN transistors are preferred over PNP counterparts
- Q5. Write short notes on following:
 - MOS IC fabrication technique
 - (b) Czochralski Process
 - CVD process

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