I M.Tech - I Semester – Regular/Supplementary Examinations – January - 2017		
RAPID PROTOTYPING (MACHINE DESIGN)		
Duration: 3 hours Answer any FIVE questions.	Max. Marks: 70 . All questions carry equal marks	5
1. a) What are the advantage	s of rapid prototyping? 5	Μ
b) Briefly explain the cate, systems.	gorization of rapid prototyping 9]	Μ
 2. Explain the following tera a) 3D modeling b) Data conversion & tra c) Checking and preparind) Building e) Post processing 	ansmission	Μ
3. Write the principle and p stereolithiography appara	process flow of the 3D system atus. 14 M	1
4. With a neat sketch explain (SGC).	n Cubital's solid ground curing 14 M	-

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- 5. How FDM is used in RPT? What are the applications of FDM models? 14 M
- 6. Explain the principle and process of Multi-jet Modeling system (MJM). Also write the applications. 14 M
- 7. a) Differentiate SLA and SLS in Rapid prototyping. 7 M

b)With a neat sketch explain selective laser sintering. 7 M

8. Explain in detail the LENS process with a neat diagram. Also write the applications.14 M