Eighth Semester B.E. Degree Examination, Aug./Sept. 2020 **Rapid Prototyping**

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

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		PARI - A				
1	a.	With a schematic diagram, explain Stereo Lithography process.	(08 Marks)			
-	b.	Explain with examples, application of RP in three different fields.				
	c.	Explain the process parameters in Stereolithography.				
2	a.	DAPIGHT Butte 1 Toparation montes and all	(06 Marks) (04 Marks)			
	b.	Explain any 4 applications of Selective Laser Sintering.				
	c.	transfer to the transfer to the transfer to the deliner of the transfer to the				
3	a.	With a schematic diagram, explain solid Ground curing.	(10 Marks)			
J	b.					
	0.	Explain the two teenings see				
4	a.	With a schematic diagram, explain working of 3D printing machine.	(08 Marks)			
7	b.	Explain with a diagram, Thermal Ink Jet Printing.	(08 Marks)			
	c.	Write a note on Genisys X _s printer HP system.	(04 Marks)			
	0.	Willow a note on Commey Tay				
		PART – B				
5	a.	With neat sketch, explain Silicone Rubber Tooling.	(10 Marks)			
	b.	Explain 'Spray Metal Tooling'.	(10 Marks)			
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6	a.	Explain the 'Quick Cast Process'.	(07 Marks)			
	b.	Explain with a line diagram 'Direct Metal Laser Sintering.	(08 Marks) (05 Marks)			
	C.,	Compare Hard Tooling with Soft Tooling.	(US Marks)			
	6					
-	7945	Explain any four common errors in CAD to STL conversion.	(08 Marks)			
7	a. h	Explain briefly	(
	b.	i) Imics ii) Magics iii) Magic communicator.				
		i) lines ii) wagio oommamooo	(12 Marks)			
8	a.	Explain with sketch, Error due to slicing.	(08 Marks)			
	b.	Write note on:				
		i) Part Finishing Error				
		ii) Part Building Error.	(12 Marks)			

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice.