## SSLC, HSE, DIPLOMA, B.E/B.TECH, M.E/M.TECH, MBA, MCA

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	Reg. No.:		
	Question Pap	er Code:	70287
CC	Seco C 5292 – ADDITIVE MA non to M.E. Computer A M.E. Product De	nd Semester CAD/CAM NUFACTURING	Engineering Design/
Time: Three H	Iours		Maximum: 100 Marks
	Answer	r ALL questions	
		PART - A	(10×2=20 Marks)
1. What is vi	rtual prototyping?		
2. Classify th	ne additive manufacturing	g process.	
3. Differentia	ate between geometry and	l topography.	
4. What are	the principle of Model Slic	cing?	
5. What is So	olid Ground Curing (SGC)	process?	
6. What are	the process variable in FD	OM?	
7. What are t	the powder phase structur	res available in Sel	ective Laser Sintering ?
8. Why is acc	curacy important in SLS ?		
9. Compare	lirect and indirect fabrica	tion processes.	
10. Classify Ra	apid tooling.		
		PART - B	(5×13=65 Marks)
	fly discuss AM process ch out the benefits and appl (OR)		(8) (5)
b) Explain	the evolution of RP to AI	M. -	

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70287 12. a) Compare wire frame, surface and solid model with suitable example. b) Analyze reverse engineering technique with respect to digitization and explain. 13. a) Discuss about various FDM materials and applications of FDM. (OR) b) Explain about pre build, part build and post-build process of SLA. 14. a) i) Differentiate between direct and indirect SLS. ii) Demonstrate the applications of SLS and its processing techniques. b) Explain the entire process of LENS and its advantages, limitations and applications with a case study. 15. a) Describe the applications of rapid tooling in automotive and aerospace industries. b) Discuss any four types of finishing processes adopted for rapid prototypes. PART - C (1×15=15 Marks) 16. a) Explain the concept of Production tooling with a case study. b) What is the RP/AM wheel? Explain its four primary aspects.

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