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Code No: 137AC

R16

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, December - 2019			
ADDITIVE MANUFACTURING TECHNOLOGY			
A Time:	Max. Mar	ks; 75\	
Note:	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b as sub questions.		
AG	$\triangle G \triangle G \triangle AG \triangle G$	Marks)	
1.a) b) c) d) e) f) g) h) i) j)	What is AM process chain? Define the term Rapid tooling. What are the recoating issues in SLA? What are the strengths of SGC? What are the needs for Rapid Tooling? What is DTM Rapid tool process? Write newly proposed formats for Rapid prototyping. What are the special features that you will get in 3D VIEW software? What is GIS? What is its use in Additive manufacturing? What are the applications of RP in Aerospace industry and in Engineering?	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3]	
AG.	AGAGAGAGAG) Marks)	
2.	Additive manufacturing is the key component for the "future of manufacturing" your understanding of the statement and outline the process that are in use today. OR	. Explain [10]	
3. AG.	Describe historical development of Rapid prototyping and write the classification of Process: Discuss in detail the Solid grand cutting. OR	on of RP [10] [10]	
5.	Explain in detail the FDM process with neat sketch.	[10]	
6. 	Write the applications, advantages and disadvantages of 3DP. Also define its principle. OR Explain with a neat sketch the working principle of Selective Laser Sintering productions.		
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