Reg.No:



SNS College of Technology, Coimbatore-35. (Autonomous) B.E / B.Tech- Internal Assessment -II Academic Year 2023-2024 (Odd Semester) Seventh Semester Aerospace Engineering 19ASZ401– 3D Printing for Space Components A

Time: 1 ¹/₂ Hours

Maximum Marks: 50

Answer All Questions

PART - A (5x 2 = 10 Marks)

				CO	Blooms		
1.	How	CO2	Rem				
2.	Com	CO2	Ana				
3.	Writ	CO3	App				
4.	Writ	CO3	App				
5.	Wha	What polymers are used in 3D printing?					
		PART – B (2 x 13=26 Marks)					
				CO	Blooms		
6.	(a)	Briefly explain about the concept of design model preparation for AM.	13	CO2	Und		
		(or)					
	(b)	What is model slicing? Explain with neat sketches for AM.	13	CO2	Rem		
7.	(a)	With neat sketch explain about powder bed fusion process.	13	CO3	App		
		(or)					
	(b)	Explain in detail about the properties of photo polymerization materials.	13	CO3	Und		
8.	(a)	With neat sketches explain the part orientation and support generation in AM.	14	CO2	App		
		(or)					
	(b)	Enumerate the process involved in powder bed fusion mechanism.	14	CO3	Und		

Reg.No:				



SNS College of Technology, Coimbatore-35. (Autonomous) B.E / B.Tech- Internal Assessment -II Academic Year 2023-2024 (Odd Semester) Seventh Semester Aerospace Engineering 19ASZ401– 3D Printing for Space Components



Maximum Marks: 50

Time: 1 ¹/₂ Hours

Answer All Questions

PART - A (5x 2 = 10 Marks)

				CO	Blooms
1.	Wha	CO2	Und		
2.	Clas	CO2	Und		
3.	Wha	CO3	App		
4.	How	CO3	Rem		
5.	What type of 3D printing process uses a powdered material?				Rem
		PART – B (2 x 13=26 Marks)			
				CO	Blooms
6.	(a)	Enumerate the detail about tool path system in AM	13	CO2	Und
		(or)			
	(b)	Give detail explanation about design for AM.	13	CO2	App
7.	(a)	Explain the concept of Photo polymerization process in AM	13	CO3	Und
		(or)			
	(b)	Write about Powder fusion mechanism in AM.	13	CO3	App
8.	(a)	List out the design process for drone components in AM.	14	CO2	Rem
		(or)			
	(b)	With neat sketch explain about electron beam melting process.	14	CO3	App
		***************	I	1	1
1	Abbre	viations: Rem- Remember: Und- Understand : App-Apply: Ana-Anal Create	lyze: Eva	-Evalua	te: Cre-