



CBCS SCHEME

18MT642

Sixth Semester B.E. Degree Examination, June/July 2023 Rapid Prototyping

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Note. Answer any FIVE jun questions, choosing ONE jun question from each mounte.				
1	a.	Module-1 Classify Rapid Prototyping System and explain any one class.	(10 Marks)	
1				
	b.	Explain the growth of Rapid Prototyping in the Industry.	(10 Marks)	
OR				
2	a.	With a neat sketch, explain stereolithography process.	(10 Marks)	
	b.	Explain the advantages and applications of Rapid Prototyping.	(10 Marks)	
		Module-2		
3	0	With a neat sketch explain the working of fusion deposition modeling.	(10 Marks)	
3	a.			
	b.	Explain solid ground curing with neat diagram.	(10 Marks)	
		On		
		OR		
4	a.	Describe laminated object manufacturing process involving solid sheets.	(10 Marks)	
	b.	List LOM materials and explain the applications of LOM.	(10 Marks)	
		Man and a second		
		Module-3		
5	a.	With a neat sketch, explain selective Laser Sintering Technology.	(10 Marks)	
	b.	Briefly explain the Data Preparation for Selective Laser sintering Process.	(10 Marks)	
OR				
6	a.	Explain the raw materials used for SLS technology.	(10 Marks)	
U	а. b.	Explain the applications SLS process.	(10 Marks)	
	υ.	Explain the applications SES process.	(10 Marks)	
		M. July		
-		Module-4	(10.7/ 1.)	
7		Compare rapid tooling with convectional tooling.	(10 Marks)	
	b.	With a neat sketch, explain the direct ACES injection molding setup.	(10 Marks)	
	OR			
8	a.	Explain Spray Metal Tooling.	(10 Marks)	
	b.	Briefly explain quick cost process.	(10 Marks)	
Module-5				
9	a.	List the internet based software for Rapid Prototyping.	(10 Marks)	
.51	b.	Write a short note on Magic's and Mimics.	(10 Marks)	
	٥.	4		
OR				
10	a.	Explain the requirements that must be followed during STL file generation.	(10 Marks)	
10		Briefly explain data preparation error.	(10 Marks)	
	b.	briefly explain data preparation error.	(10 Maiks)	

* * * * *