Total N	umber of Pages : 02					B.Tech
	4 th Semeste	er Regular	/ Back Exam	nination 20	18-19	PME4D003
		D MANUF	ACTURING F			
210	210		NCH : MECH Marks : 100	2	10	210
			e : 3 Hours			
A	- Overstien No. 4 (De	-	ODE : F971			Dout II ou d
Answe	r Question No.1 (Pa		O from Part-		GHI from	Part-II and
	The figures i	-			marks.	
210	210	210	210 Part- I	21	0	210
Q1	Only Short Answer T	vpe Questi		All-10)		(2 x 10
a)	State the different com	-			?	(
b)	What do you mean by	•		• •		
c)	What do you mean by	fused depo	sition modellin	g (FDM)		
d)	Give some examples of	of substracti	ve prototyping	process?		0.1.0
210 e)	What do you mean by	slicing?	210	2	10	210
f)	What is stereo lithogra	phy?				
g)	State the parameters f	or selective	e laser sintering	g process?		
h)	What do you mean by	internal hat	ching how it is	different fro	m slicing?	
i)	What is a stl file and st	tate its impo	ortance in CAD	?		
j) 210	What do you mean by 210	reverse eng	gineering?	2	10	210
			Part- II			
Q2	Only Focused-Short of Twelve)	Answer Ty	pe Questions	s- (Answer	Any Eight	out (6 x 8)
a)	Discuss the need pf ra	pid prototyp	oing in the cont	ect of batch	production	
b) 210	What do you mean by limitations?	y flexible m	anufacturing a		application	and 210
c)	State the advantages			2	10	210
-	Discuss the various manufacturing process	factors t		s the accu	uracy of ra	apid
d)	Explain stereo lithogra	phy with liq	uid thermal po	lymerization	?	
d) e)	Discuss the starse lith	ography col		zation?		
	Discuss the stereo lith	ograpny sor	id foil polymeri		over RP?	210
e) f)	What is solid ground c	• • •		ages of SGC		
e)		learing? Sta	ate the advanta facturing (BPN	/) for creatin	10	
e) f) ₂₁₍ g)	What is solid ground c Discus the Ballastic pa	learing? Sta article manu nent of a su shape mell	ate the advanta facturing (BPN pport structure ting process he	/) for creatin in BPM? ow is itydiffe	g solid objec	sed
e) f) ₂₁ g) h) i)	What is solid ground c Discus the Ballastic pa Also state the requiren What do you mean by deposition modelling? What is repeatitive ma of mechatronics?	learing? Sta article manu nent of a su shape melt State its ad sking and d	ate the advanta facturing (BPN pport structure ting process he vantages, limit leposition? Sta	A) for creating in BPM? ow is itydiffe ations and a te its import	g solid objec rent from fu pplications?	
e) f) ₂₁ g) h)	What is solid ground c Discus the Ballastic pa Also state the requiren What do you mean by deposition modelling? What is repeatitive ma	learing? Sta article manu nent of a su shape melt State its ad sking and d	ate the advanta facturing (BPN pport structure ting process he vantages, limit leposition? Sta	A) for creating in BPM? ow is itydiffe ations and a te its import	g solid objec rent from fu pplications?	

210	210	210	210	210	210	210	210
				Part-III			
	Q3	Only Long Answer Discuss in details th in CAD environment	e various steps				
210	Q4 ₂₁₀	Discusses in details	the Classificatio	on of different RF	P techniques?	210 (16)	210
	Q5	Describe Holographi	(16)				
	Q6	Explain the Data pre influence of build orie	eparation errors entation in rapio	s, Part building e d prototyping?	errors, Error in fini	shing, (16)	
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