## Code No: 117BD

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, March - 2017 CAD/CAM

***	SWW9. 3990	CAD	/CAM	5 414 411	face to						
	(C	ommon to ME,	AE, AME, MS	SNT)							
Time	3 Hours				x. Marks: 75						
Note:	This question paper cont	ains two parts A	and B.								
				l questions in F	Part A.						
e''''	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, c as sub questions.											
-1 volume to marine and may have a, o, o as sub questions.											
Part- A (25 Marks)											
1.a)	List out the computer per	,	,		[0]						
-					[2]						
b)	Differentiate between the		ata structure	*****	[3]						
	What is blending function		6		[2]						
d)	Write the parametric equ				[3]						
e)	Define the MCU,DPU, C	*			[2]						
f)	Differentiate the ACO an	nd ACC type ada	iptive controllei	CS .	[3]						
g)	What is an ideal cell?				[2]						
	What are the benefits of I		1000	2007	[3],000						
i)	State the objectives of qual	ity control	See Free		[2]:						
j)	Distinguish between the	FMS and FMC			[3]						
		Part- B (5	50 Marks)								
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2.a)	How CAD /CAM syste	ms are evaluate	ed? Explain in	detail by cate	gorizing different						
evaluation parameters during selection.											
b)	What is automation? Exp	plain the various	categories of a	utomation.	[5+5]						
		0	R								
3.a)	Compare the Bezier and	B spline curves	and derive the p	arametric equa	tions of both.						
b): ;;	What are the manipulation	on curve fitting to	echniques used	in wire frame n	nodeling?[5+5]						
·		: T	:	San Fair	lim in						
4.a)	What is the difference be	tween the B spli	ne and Coon's	surface? Expla	in.						
b)	An ellipse wit semi majo										
,	revolution passes through	center of the el	lipse and lies ir	the plane xv. I	Revolve this curve						
	about x axis through 2	I to obtain a su	rface revolution	n Calculate th	e surface point at						
(C)		The South a sa		ii. Carcarate tii							
il		0	R		[5+5]						
5.a)	With suitable example br	~		odeling and R r	en modeling						
b)	Differentiate between the	linear sween on	ed rotational ass	odennig and D I							
0)	Differentiate between the	micai sweep an	iu iotalionai sw	eep.	[5+5]						
6.a)	What are the major comm	opents of NC m	oobing? Evalsi								
	What are the major comp	onents of NC III	acnine? Expian	in detail	300 4						
D) :	What are the advantage	es of computer	assisted part	programming							
	programming.		TO.		[5+5]						
7	D ' C 1 ' C	0									
7.a)	Briefly explain functions										
b)	What are the four types o	of statement in A	PT langaguge?		[5+5]						
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	b):biscus ii) Mor 9.a) Discus	ss with example no code ii) Poly ss a variant prod	considered in selects of the fallowing.  code iiii Mixed of the code iiii iiii code code code code code code code code	code.	26	[5+5]	
40	10,a) Explai b) Discus	n principal com ss various attribu	ponents of FMS. utes of guidance ar  cements of machine	nd AGV systems.		[5+5]	- 174 (***)
****						[5+5]	
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j j	26		26	200 200 200 200 200 200 200 200 200 200			***** 1. **** 1. **** 1.
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