7R.	7R 7R 7R 7R	7R 7R						
Codo	No: 117BD	R13						
Code	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSIT							
Samo	B. Tech IV Year I Semester Examinations, April/Ma							
70	GAD/CAM CARCONIC	70 70	··········					
Time	(Common to ME, AE, AME, M\$NT)	Max. Marks: 75	/					
	This question paper contains two parts A and B.	Max. Marks. 75						
	Part A is compulsory which carries 25 marks. Answer all question							
	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.							
7R	PART-A	(25 Marks)	7					
1.a)	List out input and output devices of CAD.	[2]						
b) c)	What are the importance's of continuity curves? What is subdividing?	[3]						
d)	Write the parametric equation of ruled surface	[3]						
e)	What do you understand the M and G functions?	[2]						
7) f)	Compare the NC, CNC and DNC 7	<u> </u>	/					
/ \ g)	What is the need of part analysis?	[2]/ \						
h) i)	What is composite part? Give an example of your own? Define the FMS	[3]						
j)	What is the role of computers in quality control?	[3]						
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71)		(50 Marks)	7					
/ \ 2.a)	Compare the traditional and CAD/CAM of product cycle.							
b)	What are the applications of computer in design?	[5+5]						
2 -)	OR							
3.a) b)	Differentiate between the interpolation and approximation of cur Derive the parametric equation for Hermite cubic curve? List ou							

/ 4.a)	Define Bezier surface? Explain various characteristics of this sur							
/ ' ` b)	A circle with radius/5 units having center focated at point (20, 10, 0) is		/					
	an angle $2 \prod$ to obtain a surface revolution. Calculate the surface point \mathbf{OR}	at θ -[] and Φ -[]. [3+3]						
5.a)	Enlist and explain with different Boolean operations in solid modeling							
b)	Explain the cell decomposition and spatial occupancy enumeration.	[5+5]						
6.a)	How are NC machines are classified? Explain them with neat ske	etches:						
/ \(\) b)	With neat sketches, write down the neat procedure for manual pa		/					
/	OR	170: 19 1	/					
7.a)	Explain the concept of adaptive control of NC machines.							
b)	List out various types G and M codes functions.	[5+5]						
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8.a) b) 9.a)	What is a pr How do you method.	Discuss advantage and disadvantages of OPITZ code system. What is a production Flow Analysis? Discuss various steps involved in PFA. [5+5] How do you overcome the difficulties in traditional process planning by adopting CAPP method. Explain the machine cell design. [5+5]						
10.	a) Circular la b) Linear lay c) Loop laye d) Free layou Explain follo	ayer vers ors ut. Dwing inspection	OR	esign of FMS.	70	[10]		
7R	a) On-line in b) Off-line in c) In-process d) Process in	nspection s inspection	ooOoo	7 R	7R	[10]7	- <u>- </u>	
7R	7R		72	7R	7 R	7R	- <u>- </u>	
72	7	7R	7R	7R	7 7 8	77R		
7 R	7R	72	72	72	72	7.2	7	
7 R	7 R	7 P	7R	7R	7 R	-	7	