		Library Monard	
		CBCS SCHEME	
USN			20MCM13
		First Semester M.Tech. Degree Examination, Feb./Mar. 20	122
		Computer Integrated Manufacturing System	
Tim	10.3		Marks: 100
1 111		ote: Answer any FIVE full questions, choosing ONE full question from each n	
	1 4	Module-1	
1	a.	Explain the application of CAD/CAM to a product cycle with a block diagram.	(10 Marks)
	b.	Explain the benefits of CIM system.	(04 Marks)
	С.	With a neat sketch explain NC motion system.	(06 Marks)
2		OR Will 1.1. finformation of p	anufacturin
2	a.	With a help of information processing cycle explain different function of n support system.	(10 Marks
	b.	With an illustration explain Absolute and incremental system in NC.	(06 Marks
	c.	Explain the advantages of NC.	(04 Marks
		Module-2	
3	a.	Explain the general Architecture of CNC machine with a block diagram.	(10 Marks
	b.	List the components of CNC system and explain any two in detail.	(10 Marks
		OR	
4	a.	List the components used in CNC driving system and explain any two.	(10 Marks
	b.	List the devices used to collect feedback in CNC machine and explain them.	(10 Marks
_		Module-3	
5	a.	List the factors required for design consideration of CNC machine for improvand explain briefly.	(10 Marks
	b.	Explain the structural members and slide ways in CNC machine.	(10 Marks
		OR	
6		Write short notes on :	
	a.	Work holding device and Tool holding device.	(10 Marks
	b.	Automatic Tool changer.	(10 Marks
		Module-4	
7	a.	Explain the various functions involved in manual part programming.	(16 Marks (04 Marks
	b.	List and explain the difference between NC and CNC machine.	(04 14141K3
8		OR Explain the functions of CNC control in machine tools.	(06 Marks
	a. b.	Explain the functions of DNC and explain the communication between DI	
	0.	and MCU.	(10 Marks
	C.	List the difference between CNC and DNC.	(04 Marks
		Module-5	
9	a.	Explain the need and function of adaptive control in machining system.	(10 Marks
	b.	List the type of adaptive control and explain them.	(10 Marks)
		OR CAPP annual	ahaa
10	a.	With a block diagram explain the working principle of generative CAPP approx	iches. (10 Marks)
	b.	Explain the function involved in Shop Floor Control.	(10 Marks)

.....ivas institute of Technomia

\* \* \* \* \*