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First Semester M.Tech. Degree Examination, Jan./Feb. 2023 Computer Integrated Manufacturing

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.*

		Module – 1		
		M	L	C
Q.1	a.	Explain types of manufacturing system. Define manufacturing system.		
	b.	Brief the material handling systems.		
OR				
Q.2	a.	Explain basic concepts of NC.		
	b.	Write the difference between open loop and closed loop system.		
Module – 2				
Q.3	a.	Explain actuation systems in CNC.		
	b.	Write a short note on spindle design.		
OR				
Q.4	a.	Describe cutting tool materials and turning tool geometry.		
	b.	Explain the cutting process parameter selection.		
Module – 3				
Q.5	a.	Explain manual part programming.		
	b.	Explain APT language.		
OR				
Q.6	a.	Mention the advantages of CNC.		
	b.	Difference between DNC and MCU.		
Module – 4				
Q.7	a.	Write a short note on adaptive control constraint system.		
	b.	Mention the application of adaptive control machining.		
OR				
Q.8	a.	Write about robot geometric configurations with explanation.		
	b.	Mention the Robotic applications.		
Module – 5				
Q.9	a.	Mention the problems with traditional production planning and control.		
	b.	Write a short note on computer integrated production management system.		
OR				
Q.10	a.	Briefly explain stop floor control system.		
	b.	Name the benefits of MRP.		
