Download Anna Univ Questions, Syllabus, Notes @ www.AllAbtEngg.com

	Reg. No.:				
	Reg. No.:				
	Question Paper Code: 20823				
	question 2 april 2 de la constante de la const				
	B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.				
	Seventh/Eighth Semester				
	Mechanical Engineering				
	ME 6703 — COMPUTER INTEGRATED MANUFACTURING SYSTEMS				
	(Common to : Mechanical and Automation Engineering/Robotics and Automation Engineering)				
	(Regulations 2013)				
	(Also common to : PTME 6703 – Computer Integrated Manufacturing Systems for B.E. (Part-Time) – Sixth Semester – Regulations – 2014)				
	Time: Three hours Maximum: 100 marks				
	Answer ALL questions.				
	PART A — $(10 \times 2 = 20 \text{ marks})$				
	1. What are the major communication used in manufacturing Industry?				
	2. Define automation.				
	3. What are the prerequisites for process planning?				
	4. What are the applications of GT?				
	5. List out the methods for part family formation.				
	6. Name few of the CAPP system.				
	7. What are the Objectives of FMS?				
	8. List any two advantages and disadvantages of FMS implementation.				
	9. Why industrial robots are important?				
	10. What are the two types of Lead through Programming?				

Download Anna Univ Questions, Syllabus, Notes @ www.AllAbtEngg.com

			PART B — $(5 \times 13 = 65 \text{ marks})$	
	11	(0)	Emilsin the begin elements on automated system	(13)
	11.	(a)	Explain the basic elements an automated system.	(10)
			Or	
		(b)	What are all the nature and role of the elements of CIM system?	(13)
	12.	(a)	Write short notes on the following:	
			(i) Retrieval-type CAPP systems,	(7)
			(ii) Generative CAPP systems.	(6)
			Or	
		(b)	What is MRP? Explain the inputs to MRP and various MRP outputs. list the various benefits of MRP.	Also (13)
	13	(a)	(i) Enumerate Role of process planning in CAD/CAM integration."	(3)
			(ii) Enumerate the role of GT in CAD/CAM integration.	(4)
			(iii) What are all the advantage and disadvantage of varient CAPP?	type (6)
			Or	
		(b)	Explain D CLASS and OPTIZ coding systems with suitable examples	.(13)
	14.	(a)	Discuss Automated guided vehicle system in detail.	(13)
			Or	
		(b)	Discuss the functions, application, advantage and disadvantage	
			FMS.	(13)
	15.	(a)	Explain in details Robot Anatomy and its related attributes.	(13)
			Or	
		(b)	Explain in details about the types of robot part programming.	(13)
			PART C — (1 × 15 = 15 marks)	
	16.	(a)	Explain Machine Cell design and layout with neat diagram.	(15)
		(5)	Or	
		(b)	With respect to principles, tools and examples explain manufacturing and Just-in-time production systems.	(15)
*				
			2	0823