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M.E. First Semester (Mechanical Engineering) (CAD / CAM) (F.T.) (CBS)

13486 : Elective - I : Concurrent Engineering : 1 MCC 5

	ages ne : Tl	101 101 101 101 101 101 101 101 101 101	AU - 3292 Max. Marks : 80	
	Not	 All question carry equal marks. Answer Three question from Section A and Three question from Section B. Due credit will be given to neatness and adequate dimensions. Assume suitable data wherever necessary. Use of pen Blue/Black ink/refill only for writing the answer book. 		
		SECTION - A		
i.		Describe in detail various schemes and tools of concurrent engineering.	13	
2.	a)	Enlist and explain the key factors affecting the implementation of concurrent Engineering.	7	
	b)	Discuss the role of supplier involvement in C. E.	6	
3.	a)	Explain the concept of 'Design for Assembly (DFA) with suitable example.	7	
	b)	Compare and contrast between traditional and concurrent design.	6	
4.	a)	Discuss various characteristic of C. E.	7	
	b)	Describe Axiomatic Approach for concurrent engineering.	7	
5.	a)	Describe in detail technical and economic aspects related to manual fixed automated and flexible automated assembly systems.	14	
		SECTION B		
6.		Describe in detail how the work content analysis is performed for an automated fabrication system design.	14	
7.	a)	Describe the concept of batching and balancing for job-shop system with suitable example.	7	
	b)	What do you mean by process consolidation? What are its advantages.	7	
8.	a)	Describe Human resource consideration for Automated fabrication system.	7	
	b)	Discuss various steps in fabrication system design methodology.	6	
9.	a)	What are the elements of economic analysis of manufacturing systems? Also describe various types of manufacturing cost.	7 6	
10.	a)	What do you mean by i) Capital Recovery. ii) Depreciable investment.	7	
	ы	Explain the concept of process Quality assurance.	6	
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