## M.Tech. C.A.D./ C.A.M. (C.B.C.S. and Old C.B.S. Pattern) Sem-II

## **PCDS21 - Computer Integrated Manufacturing System**

P. Pages: 1 Time: Three Hours			GUG/S/19/10985 Max. Marks : 70	
	Note	es: 1. All questions carry equal marks. 2. Answer <b>any five</b> questions. 3. Due credit will be given to neatness. 4. Assume suitable data wherever necessary.		
1.	a)	With the help of neat sketch explain the various components of CIM.	7	
	b)	"CIM is integrating CAD with CAM" Critically comment.	7	
2.	a)	What is FMS? When it is to be implemented? Discuss the various criter by FMS.	rias to be satisfied 8	
	b)	Explain the various types of work stations used in FMS.	6	
3.	a)	"Concurrent Engineering aims to reduce the lead time and product cost statement.	" Justify the 6	
	b)	What is production flow analysis? Explain its procedural steps.	8	
4.	a)	Explain the term CAPP. Why it is needed? Discuss the benefits of it.	7	
	b)	What is nano manufacturing? Explain in detail.	7	
5.	a)	What is MRP? What are various inputs of MRP?	7	
	b)	What do you mean by Gross requirement and net requirement?	7	
6.	a)	"Elimination of waste is the sole purpose of JIT" Justify.	7	
	b)	Compare traditional purchasing with JIT purchasing.	7	
7.	a)	What is capacity planning? Also explain factors influencing effective c	apacity. 6	
	b)	Explain the terms:  i) System capacity.  ii) System efficiency.  iii) Actual capacity iv) Designated capacity	8	
8.	a)	Explain the construction of various types of CMM.	7	
	b)	Explain: i) Plant scheduling ii) KANBAN.	7	

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