M.Tech. C.A.D./C.A.M. (C.B.C.S. Pattern) Sem-II PCDS242 - Elective-II : Product Design & Development

P. Pages : 1 Time : Three Hours			urs * 2 9 5 5 *	GUG/S/19/10990 Max. Marks : 70	
	Note	s: 1. 2. 3. 4. 5.	 Answer any five questions. Due credit will be given to neatness and adequate dimensions Assume suitable data wherever necessary. 		
1.	a) Design the importance of product design and development.			7	
	b)	Expla	ain the various phases of product development.	7	
2.	a)	Discu	uss the product life cycle in detail.	7	
	b)	Expla	xplain the contribution of expert system in PDD.		
3.			e short notes on Process selection b) Material selection	14	
4.			e short notes on DFM b) QFD	14	
5.	a)	Enlis	and Explain various Factors for Decision analysis. 7		
	b)	"Valı	ue Engineering is an essential tool for product development". Exp	lain. 7	
6.	a)	Discu	s the top-down and bottom-up approach for assembly modeling.		
	b)	What	t are the various methods of prototyping. Explain any one method	in detail. 7	
7.	a)		e short notes on FDM b) Life cycle costing	14	
8.		Write	e short notes on	14	
		a) '	Time value of money.		
		b)	Investment analysis.		
