M.E. First Semester (Mecha. Engg. (Adv. Manu. & Mech. Sys. Design)) (New-CGS)

13464: Elective - I: Lean Manufacturing: 1 MMD 5

P. Pages: 1 Time: Three Hours			AU - 3384 Max. Marks : 80	
	Note	es: 1. All question carry equal marks. 2. Answer any three question from Section A & any three question from 3. Illustrate your answer necessary with the help of neat sketches.	n Section B.	
		SECTION - A		
1.	a)	Explain the organizational pressure in competitive markets, what are the solutiovercome these problems?	ons to 6	
	b)	Explain the different goals of lean manufacturing with examples.	7	
2.	a)	What are the internal and external customers in lean thinking?	6	
	b)	What are the reasons for delayed supply? Explain the impact of delay in suppl	y. 7	
3.	a)	What do you mean by primary and secondary tools in lean manufacturing? Ex	plain any 6	
	b)	one. What do you mean by rework? What are the common causes for defect in the	product? 7	
4.	a)	What do you mean by unnecessary transport?	6	
	b)	What is the significance of unnecessary transport on the cost of product? Explain the step by step procedure of implementation of lean manufacturing.	7	
5.	a)	What is the importance of training in successful implementation of lean.	7	
	b)	What are the barriers in implementation of lean manufacturing in an organization	ion? 7	
		SECTION - B		
6.	a)	Explain in details the goals of T.P.M.	6	
	b)	What are the stages and steps in implementing TPM in an organization?	7	
7.	a)	Explain the concept of JISHU-HOZEN.	6	
	b)	What do you mean by OEE? What are the different methods of improving the	OEE ? 7	
8.	a)	Explain the need of cellular manufacturing. What are the favorable conditions implementation of it?	successful 6	
	b)	What are the different coding systems use in group technology? Explain any o	ne. 7	
9.	a)	What do you mean by 'Mistake Proofing' what is the importance of this in lean manufacturing.	6	
	b)	What is visual management? What are the four phases to visual management?	? 7	
10.	a)	Explain the concept of SMED with its benefits and applications.	7	
	b)	What is the importance of lean audit? Explain the procedure of lean audit.	7	

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