BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS:	M.Tech	SEMESTER: II	
BRANCH	I: AMS	SESSION: SP/19	
TIME:	SUBJECT: PE513 MANUFACTURING SYSTEM DESIGN 3 Hours	FULL MARKS: 50	
 INSTRUCTIONS: 1. The question paper contains 5 questions each of 10 marks and total 50 marks. 2. Attempt all questions. 3. The missing data, if any, may be assumed suitably. 4. Before attempting the question paper, be sure that you have got the correct question paper. 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall. 			
Q.1(a)	Define Manufacturing system and Discuss characteristics features of Job, Batch ar systems with examples.	d Mass production	[5]
Q.1(b)	, , , , , , , , , , , , , , , , , , , ,		[5]
Q.2(a)	Write the different types of tool in performance measurement with an example.		[5]
Q.2(b)	Discuss the design process of a manufacturing system with a case study.		[5]
Q.3(a)	Explain any one Optimization technique applied in Manufacturing system.		[5]
Q.3(b)	Discuss Parts Oriented Production Information System with a flowchart.		[5]
Q.4(a)	With a suitable example explained Miltenburg's manufacturing system.		[5]
Q.4(b)	Explain the element of system redesign with a block diagram.		[5]
Q.5(a)	What is the role of artificial intelligence in manufacturing automation?		[5]
Q.5(b)	Explain the significance of manufacturing system in industrial application.		[5]

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