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## 23055

## M. Tech. 1st Semester (Mech. Engg.) (Manufacturing & Automation)

## Examination – January, 2016 DESIGN PLANNING & CONTROL OF PRODUCTION SYSTEMS

Paper: 834

Time: Three Hours]

[ Maximum Marks: 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

**Note:** Attempt any *five* questions. All questions carry equal marks.

- Discuss features compiling service organization and life cycle approach to production management in detail.
- What is product development and process? Explain the various stages in new product development.
- **3.** Explain the concept of assembly line balancing and maximum line efficiency with an example in detail. 20

4.	Write short notes on:	
	(a) Material Requirement Planning (MRP).	10
	(b) Assembly Line Balancing.	1(
5.	Discuss and explain sequencing and scheduling detail.	ir 20
6.	What do you mean by forecasting? Explain in det with types, importance and its objectives.	ai 20
7.	Explain the following:	
	(a) Break even analysis and decision tree.	10
	(b) Production Schedule and HRP logic comparison	۱.
		10
8.	Explain in detail different elements of monitoring as control of production system.	nd 20