



--	--	--	--	--	--	--	--	--	--

P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)

Eighth Semester, B.E. - Industrial and Production Engineering

Semester End Examination; June/July - 2015

Just In Time Manufacturing

Time: 3 hrs

Max. Marks: 100

Note: Answer any FIVE full questions, selecting at least TWO full questions from each part.

PART - A

- 1 a. Define JIT and List out the core practices established by the Toyota System. 10
- b. Briefly explain the benefits of JIT. 10
- 2.a. With the help of neat sketches, briefly explain the withdrawal Kanban and Production ordering Kanban. 10
- b. Briefly explain the rules and sub rules of Kanban. 10
- 3 a. With the help of a block diagram, briefly explain the production planning system at Toyota. 10
- b. Briefly explain the four major setup concepts in order to reduce set up time. 10
- 4 a. Briefly explain the four applications of the JIT principles in an automotive Industry. 10
- b. Briefly explain JIT in process type industry. 10

PART – B

- 5 a. Briefly explain JIT Production in West Germany. 10
- b. Briefly explain JIT Production in Hong Kong Electronics Industry. 10
- 6 a. Briefly explain the goals that have to be set to achieve an even, balanced and self adjusting flow. 10
- b. Briefly explain Human Resource Management in JIT. 10
- 7 a. Briefly explain the characteristics of the Japanese JIT supply system. 10
- b. Briefly explain the Major problems encountered in the implementation of JIT. 10
- 8 a. Briefly explain the risks due to inappropriate understanding of JIT. 10
- b. Briefly explain some important activities to be performed during JIT implementation. 10

* * * * *