



# CBCS SCHEME

16/17MPD41

## Fourth Semester M.Tech. Degree Examination, June/July 2019 Advanced Manufacturing Practices

Time: 3 hrs.

Max. Marks: 80

*Note: Answer any FIVE full questions, choosing ONE full question from each module.*

### Module-1

- 1 a. Explain the core Japanese practices of JIT. (08 Marks)  
b. Describe basic elements of JIT. (08 Marks)

OR

- 2 a. Explain profit through cost reduction with an example. (08 Marks)  
b. Explain the process layout for shortened lead times in just in time production. (08 Marks)

### Module-2

- 3 a. Explain briefly Toyota production system. (08 Marks)  
b. Explain sequence and scheduling used by suppliers in JIT. (08 Marks)

OR

- 4 a. Explain the basic frame work of Toyota production system. (08 Marks)  
b. Interpret the production smoothing adaptability to demand fluctuations. (08 Marks)

### Module-3

- 5 a. Outline total quality control in just in time concept. (08 Marks)  
b. Illustrate the JIT cause-effect chain. (08 Marks)

OR

- 6 a. Explain scrap/quality improvements. (08 Marks)  
b. Infer the withdrawal of buffer inventory in JIT. (08 Marks)

### Module-4

- 7 a. Explain in brief total quality control concepts in brief. (08 Marks)  
b. Analyze the TQC concepts categorized. (08 Marks)

OR

- 8 a. Explain the Habit of improvement in TQC. (08 Marks)  
b. Analyze the QC circles. (08 Marks)

### Module-5

- 9 a. Explain briefly plant configurations. (08 Marks)  
b. Outline about overlapped production. (08 Marks)

OR

- 10 a. Appraise the physical merges of process. (08 Marks)  
b. Explain about Pseudo Robots. (08 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.