

# CBCS Scheme

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16MPD423

## Fourth Semester M.Tech. Degree Examination, June/July 2018 Agile Manufacturing

Time: 3 hrs.

Max. Marks: 80

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

### Module-1

- 1 a. What is Agile Manufacturing? Explain briefly its structure and how it offers agility. (08 Marks)  
b. Differentiate between economics of scale and economics of scope with advantages of them relevant to competitive environment. (08 Marks)

OR

- 2 a. With schematic diagram, discuss the conceptual frame work for agile manufacturing. (08 Marks)  
b. List the four core concepts for agile manufacturing and explain any one concept in detail. (08 Marks)

### Module-2

- 3 a. What are the challenges to be faced in moving from traditional enterprise design to agile manufacturing enterprise design? Explain. (08 Marks)  
b. Describe traditional approach to produce costing. (08 Marks)

OR

- 4 a. Briefly explain method of financial performance measurement and control system. (08 Marks)  
b. Discuss the traditional problems in the workplace. (08 Marks)

### Module-3

- 5 a. Differentiate between systems thinking and system engineering approach as system concepts of manufacturing theory. (08 Marks)  
b. List the nine principles of joint technical and organization design. (08 Marks)

OR

- 6 a. Describe with necessary block diagram, the agile manufacturing enterprise design process. (08 Marks)  
b. What do you mean by inter disciplinary design? Give simple examples for the same. (08 Marks)

### Module-4

- 7 a. Briefly explain skill enhancing technologies for agile manufacturing. (08 Marks)  
b. Briefly explain knowledge enhancing technologies for agile manufacturing. (08 Marks)

OR

- 8 a. Explain technology oriented design paradigm in agile manufacturing. (08 Marks)  
b. Briefly explain design and technical implication in agile manufacturing. (08 Marks)

### Module-5

- 9 a. List the basic design requirements for machine tool system. (08 Marks)  
b. Explain briefly the need for an integrated approach in Agile manufacturing. (08 Marks)

OR

- 10 a. Write brief note on Agile Manufacturing Research. (08 Marks)  
b. Briefly explain future generation skill and knowledge enhancing technologies in Agile Manufacturing. (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.