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10ME765

**Seventh Semester B.E. Degree Examination, Dec.2016/Jan.2017**  
**Agile Manufacturing**

Time: 3 hrs.

Max. Marks:100

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

**PART – A**

- 1 a. What is Agile Manufacturing? (04 Marks)  
 b. Discuss characteristics and features of Agile Manufacturing. (06 Marks)  
 c. With a neat sketch, explain road map for agile manufacturing. (10 Marks)
- 2 a. Discuss enterprise integration and imperatives. (06 Marks)  
 b. Explain general enterprise integration framework. (06 Marks)  
 c. With a neat block diagram, explain CIMOSA architecture. (08 Marks)
- 3 a. Define QFD and discuss the role of QFD during integration of products/process development. (12 Marks)  
 b. With a neat block diagram, explain seven agile competences required for an agile organization. (08 Marks)
- 4 a. What is the role of multimedia in improving agility in agile manufacturing system? (10 Marks)  
 b. Explain 3-stage approach to agile manufacturing system analysis. (10 Marks)

**PART – B**

- 5 a. Draw a neat sketch and explain the relationship between agility, adoptability and leanness. (10 Marks)  
 b. Define SCM and explain implications of SCM in agile manufacturing. (10 Marks)
- 6 a. Explain variant and generative CAPP approaches and implementation strategies. (10 Marks)  
 b. What is the need of CAPP? Enlist the guidelines for CAPP in agile manufacturing. (10 Marks)
- 7 a. Discuss human and social implications of management of corporate knowledge in agile manufacturing. (12 Marks)  
 b. Explain the role of standards. (08 Marks)
- 8 a. Explain the group decision support system for machine tool. (10 Marks)  
 b. Mention various decision supports for the selection of cutting parameters. (10 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.