Unit IV

- 7. (a) Explain the integration of CAQC with CAD/CAM.
 - (b) Draw the block diagram of direct digital control system and explain components of it.
- 8. Describe the artificial intelligence and expert system in CIM.

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M. Tech EXAMINATION, May 2017

(Third Semester)

(Re-appear Only)

(ME)

MEP-601-B

COMPUTER INTEGRATED MANUFACTURING SYSTEM

Time: 3 Hours [Maximum Marks: 75

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

Note: Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

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Unit I

- (a) Describe the factors responsible for the success of CIM application in present time.
 - (b) Write a short note on historical developments in manufacturing and automation.7
- 2. (a) Give an introduction to manufacturing system and its objectives.8
 - (b) Explain the linking manufacturing strategies and system analysis of manufacturing operation.7

Unit II

3. (a) Describe different types of part classification and coding system. Explain any *one* in brief.8

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- (b) Explain the need of computer aided process planning. What are the various approaches available for computer aided process planning?
- 4. (a) Draw a block diagram showing the interaction between the material requirement planning and other modules for production planning systems.
 - (b) Write short notes on the following: 7
 - (i) Inventory management
 - (ii) Automatic identification system.

Unit III

- **5.** Write short notes on the following terms:
 - (a) Production Planning and Control
 - (b) Factory Data Collection System.
- 6. What are various types of layout used in 'FMS design? Explain briefly about their applications.15

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