Reg. No. : | | | | | | | | | | |

Question Paper Code: 37074

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

Seventh Semester

Mechanical Engineering

01UME704 - COMPUTER INTEGRATED MANUFACTURING

(Regulation 2013)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. What is meant by wire frame modeling?
2. Define pivot point rotation in transformation.
3. What is meant by MAP?
4. Define network topology and explain its classification.
5. Define Part family.
6. What is meant by process planning?
7. List the primary functions of shop floor control.
8. Outline the advantages of implementing FMS.
9. List the inputs to the MRP system.
10. Define agile manufacturing.

PART - B (5 x 16 = 80 Marks)

11. (a) Explain 2D geometric transformation matrix for translation and rotation with a simple example. (16)

Or

(b) Discuss about surface modeling in detail with suitable sketch. (16)

12. (a) Discuss the changes in manufacturing and management scenes in the recent past that led to the development of CIM. (16)

Or

(b) Explain about the seven layers of OSI model net. (16)

13. (a) Describe about the MCLASS coding system. (16)

Or

(b) Discuss about the two main approaches of CAPP systems with suitable sketch. (16)

14. (a) Describe the principle of an automated storage and retrieval system. (16)

Or

(b) Discuss in detail about the phases of shop floor control system. (16)

15. (a) Explain the different strategies of process control. (16)

Or

(b) Describe the major applications of MRP II software. (16)

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