Reg. No. :

Question Paper Code: 37704

B.E. / B.Tech. DEGREE EXAMINATION, MAR 2018

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. List the techniques of geometric 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. Differentiate lean production and agile manufacturing.

11. (a) Explain about the drawing features in CAD package.   (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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