

Reg. No. :

Question Paper Code : 51658

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2014.

Seventh Semester

Mechanical Engineering

ME 2402/ME 72/10122 ME 703 – COMPUTER INTEGRATED MANUFACTURING

(Regulation 2008/2010)

(Common to PTME 2402 – Computer Integrated Manufacturing for B.E. (Part – Time) Sixth Semester – Mechanical Engineering – Regulation 2009)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define the terms- zoom, pan.
2. Compare surface modelling and solid modelling.
3. Define Computer integrated manufacturing.
4. What are the various types of communications in CIM?
5. Define variant approach in CAPP.
6. What do you mean by cellular manufacturing?
7. What are the various types of layouts used in FMS design?
8. List out the advantages of Radio frequency identification.
9. Draw the structure of an MRP system.
10. Mention the principles of lean production system.

PART B — (5 × 16 = 80 marks)

11. (a) Describe in detail about the basic features of AUTO CAD.

Or

- (b) Specify the three principal classification of geometric modelling system and write in brief about each of them.

12. (a) Briefly explain the benefits obtain by CIM.

Or

(b) Describe in detail :

(i) Seven layer OSI model. (8)

(ii) MAP model. (8)

13. (a) Briefly explain about the OPTIZ coding system generally used in group technology.

Or

(b) Explain in detail about production flow analysis.

14. (a) Explain in detail about FMS workstations.

Or

(b) Explain the bar code printers with its applications.

15. (a) Explain in detail about Direct Digital Control.

Or

(b) Compare Lean and Agile Manufacturing.
