

Total No. of Questions : 10]

SEAT No. :

P2239

[Total No. of Pages : 2

[4460] - 605

M.E. (Mechanical) (CADM & E) (Semester - II)
COMPUTER INTEGRATED MANUFACTURING
(2012 Pattern)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) *Answer any three questions from each section.*
- 2) *Answers to the two sections should be written in separate books.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Figures to the right indicate full marks.*
- 5) *Assume suitable data, if necessary.*

SECTION - I

- Q1)** a) Explain various types of manufacturing. [9]
b) Explain the concept of integrated manufacturing. How it is better than traditional approach. [9]
- Q2)** What are the elements of computer Integrated Manufacturing? Explain in detail. [16]
- Q3)** a) What is product Data Management? Discuss. [8]
b) Explain the concept of Engineering Data Management. [8]
- Q4)** What is flexible manufacturing system? Explain the elements of FMS in detail. [16]
- Q5)** a) Explain DNC system with neat sketch. [8]
b) Describe in brief material handling equipments used in CIM. [8]

SECTION - II

- Q6)** What is Lean manufacturing? Explain the principles of Lean manufacturing with characteristics. Compare the performance of Lean aspects with traditional approach. [18]
- Q7)** a) Explain the application of web based engineering for casting. [8]
b) Describe the scenario of supply chain management in CIM. [8]

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- Q8)** a) Explain the concept of manufacturing forecasting? [8]
b) What is materials requirement planning? Discuss in detail. [8]
- Q9)** a) Discuss various machining centres and inspection equipments in CIM. [8]
b) What is master production schedule? Explain with suitable example. [8]
- Q10)** a) Describe in brief performance measures in Lean manufacturing. [8]
b) What is JIT philosophy? Explain in detail. [8]

