

Total No. of Printed Pages:2

SUBJECT CODE NO: E-8111
FACULTY OF ENGINEERING AND TECHNOLOGY
M.E. (Mechanical) Examination Nov/Dec 2017
Elective-IV: Computer Integrated Manufacturing
(Revised)

[Time: Three Hours]

[Max.Marks:80]

Please check whether you have got the right question paper.

- N.B
- i. Attempt any three questions from each section.
 - ii. Draw neat sketches wherever required
 - iii. Assume additional data if necessary

Section A

- Q.1 a) What do you understand by CIM? Describe with a sketch. 07
- b) Describe islands of automation in the context of CIM. 06
- Q.2 a) What is Group-Technology? Explain its relevance with CIM. 07
- b) What is meant by cellular manufacturing? 06
- Q.3 a) Describe Generative approach of CAPP 07
- b) What is role of process planning in integration of CAD/CAM? 06
- Q.4 a) What is barcode technology? How is it useful for shop floor control? 07
- b) What is manufacturing automation protocol? 06
- Q.5 Write notes on (Any two) 14
- a) OPTIZ
 - b) FMS
 - c) Dedicated and Open system

Section B

- Q.6 a) Describe system modelling tools. 07
- b) Describe manufacturing Enterprise wheel with a sketch 06

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- Q.7 a) What is LAN? Describe LAN topology. 07
b) What do you understand network management with reference to CIM implementation? 06
- Q.8 a) What is MAP & TOP? 07
b) What is RDBMS? Which are database operates? 06
- Q.9 a) What do you understand by Material Handling system? What is its relation with CIM? 07
b) What is carousal? How is it related to CIM? 06
- Q.10 Write notes on (any two) 14
a) CIMOSA
b) Automated data collection
c) IDEF models