

SUBJECT CODE NO:- P-8246
FACULTY OF ENGINEERING AND TECHNOLOGY
M.E. (Mechanical) Examination May/June 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) Assume additional data if necessary
 - iii) Use of non-programmable calculator is allowed

Section A

- Q.1 How is CIM concerned with the changing manufacturing and management scene? What are islands of automation? 13
- Q.2 How product related activities such as marketing and plant operations are related to CIM? How physical distribution affects on CIM? 13
- Q.3 How group technology has come into existence? Explain OPTIZ coding system with an example 13
- Q.4 What is cellular manufacturing? What are its benefits? Explain its relevance in Indian context 13
- Q.5 Write notes on (any two) 14
 - a) FMS
 - b) DCLASS
 - c) CAPP

Section B

- Q.6 How shop floor control is relevant in the CIM environment? Explain the importance of barcode technology in this context 13
- Q.7 What do you mean by CAPP? Explain variant CAPP and generative CAPP with an example 13
- Q.8 How significant is material handling in the CIM environment? What do you understand by automatic storage and retrieval system? 13
- Q.9 What do you mean by LAN? Explain its topology along with implementations 13
- Q.10 Write notes on (any two) 14
 - 1) MAP/TOP
 - 2) CIMOSA
 - 3) RDBMS