

M.Tech (CAD/CAM) Sem II
MTCC-1001 - Computer Integrated Manufacturing System

P. Pages : 1

Time : Three Hours



GUG/W/16/3934

Max. Marks : 70

- Notes :
1. All questions carry as Indication marks.
 2. Answer **any five** questions.
 3. Due credit will be given to neatness and adequate dimension.
 4. Assume suitable data wherever necessary.

1. a) What is CIMS? Describe the various functions of CIMS. 7
b) What are the advantages and limitations of integrating manufacturing system of entire factory? Explain. 7
2. a) What are the systems needed in a typical FMS in an industry? Explain each. 7
b) Describe the steps involved in planning and control of FMS. 7
3. a) What is concurrent engineering? Describe in detail. 7
b) What are the various types of machine cells in CIMS? Explain each. 7
4. a) What is Agile Manufacturing? Explain in detail. 7
b) What is CAPP? Describe the approaches of CAPP. 7
5. a) What is shop floor control? Explain its various phases. 7
b) What is MRP -II? Describe its framework and benefits. 7
6. a) What are the principles of JIT? Explain it in detail. 7
b) Describe Pull and Push production system. 7
7. a) What is KANBAN? Explain. 7
b) Describe Aggregate planning in detail. 7
8. a) What is CMM? Describe its types, working and application. 7
b) Explain. 7
 - i) Forward and backward planning.
 - ii) Master production schedule.
