

M.E. DEGREE EXAMINATIONS: DECEMBER 2009

First Semester

CAD/CAM

CCM555: Computer Aided Process Planning

Time: Three Hours**Maximum Marks: 100****Answer ALL the Questions:-****PART A (10 x 2 = 20 Marks)**

1. Define process planning.
2. What is Group Technology?
3. Define concurrent Engineering.
4. Name some CAD input and output devices.
5. List out the drawbacks of conventional tolerance.
6. What is meant by totally integrated process planning system?
7. What are the basic principles and objective used in CAM-I?
8. What is the requirement of experience based process planning?
9. How to compile report generation?
10. Name the modular structure parts.

PART B (5 x 16 = 80 Marks)

11. (a) Explain the information requirement for process planning with the help of diagram.
(OR)
(b) (i) What are the methods available for solving problem in Group Technology? (8)
(ii) List out the benefits of Group Technology. (8)
12. (a) Explain different types of Topology and state its advantages and disadvantages.
(OR)
(b) Explain MICLASS coding system.
13. (a) Describe Retrieval type of CAPP systems.
(OR)
(b) Explain forward and backward planning.
14. (a) With the help of diagram explain MIPLAN.
(OR)
(b) (i) Explain CPPP system (8)
(ii) Write short notes on
(1) Production Volume
(2) Manufacturing system components (8)
15. (a) Describe expert process planning system.
(OR)
(b) Explain the objectives and classification of database structure.