

M.E DEGREE EXAMINATIONS: JANUARY 2011

First Semester

CAD/CAM

CCM555: Computer Aided Process Planning

Time: Three Hours

Maximum Marks: 100

Answer ALL Questions: -

PART A (10 x 2 = 20 Marks)

1. What is concurrent engineering?
2. What is the place of process planning in the manufacturing cycle?
3. Differentiate unilateral and bilateral tolerance?
4. What is OPTIZ system?
5. Compare forward process planning and backward process planning?
6. What is Generative process planning?
7. What are the 4 major modules in AUTOPLAN and RPO?
8. What is the form of each rule in GARI?
9. What is PKI?
10. What are the Data files in TIPPS?

PART B (5 x 16 = 80 Marks)

11. a) Explain process planning modules and data bases with a neat diagram. (OR)
b) (i) Explain CAPP (4)
(ii) Explain three different types of code structure in GT coding system. (12)
12. a) Explain various Geometric Tolerances (OR)
b) Explain Data structure with an example.
13. a) (i) Explain Decision Trees and Decision Tables with examples. (8)
(ii) What is process capability analysis? (8)
(OR)
b) (i) Explain two stages in variant process planning. (12)
(ii) List various sequences in variant process planning. (4)
14. a) Explain factors to be considered during implementation of process planning. (OR)
b) Explain CAM-I CAPP.
15. a) List and explain various major modules or Modular structure in process planning. (OR)
b) Explain TIPPS structure.
