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Roll No

MMCM - 104

M.E./M.Tech., I Semester

Examination, June 2016

Computer Aided Process Planning

Time : Three Hours

Maximum Marks : 70

- Note : i) Attempt any five questions.
ii) All questions carry equal marks.
iii) Draw neat diagrams wherever necessary.

1. a) Discuss the role of process planning and production planning in manufacturing cycle.
b) Define concurrent engineering. State its principle. Why it is important in modern manufacturing system?
2. a) Explain the concept of Group Technology. State its applications.
b) Explain the following terms :
i) Dimensioning of Conventional tolerance.
ii) Dimensioning of Geometric tolerance.
3. a) What is GT Coding? Discuss MICLASS system of coding.
b) Differentiate prospective and geometric transformations.
4. a) What is experienced based planning? Discuss the importance of decision table and decision trees in process planning.
b) State brief about forward and backward planning.

5. Write technical note on following (any two) :

- a) Implementation of CAPP.
- b) Manufacturing system components.
- c) CPPP.

6. a) Define the terms : CAM-I, MIPLAN, APPAS, and AUTOPLAN.

b) State advantages, limitations and applications of CAPP.

7. a) What do you mean by totally integrated process planning system? Discuss in brief.

b) Explain the steps of report generation in integrated process planning system.

8. Write short note on following (any two) :

- a) The OPTIZ System
- b) Variant Process Planning
- c) Modulus Structure and Data Structure
- d) Expert Process Planning
