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Total No. of Pages : 02

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**M.Tech.(CAD/CAM) (E-IV) (Sem.-3)**  
**COMPUTER AIDED PROCESS PLANNING**

**Subject Code : ME-520**

**Paper ID : [E1039]**

**Time : 3 Hrs.**

**Max. Marks : 100**

**INSTRUCTION TO CANDIDATES :**

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

Q1 What do you understand by Traditional Process Planning? Explain the following :

- i) Product Design Evaluation.
- ii) Selection of Tooling and Process Parameters.

Q2 Describe Group Technology. Explain the following :

- i) Production Flow Analysis.
- ii) Various Coding Structures & Grouping attributes.

Q3 Describe in detail :

- i) Machinability Data System.
- ii) Cutting Condition Optimization.

Q4 Explain the following in detail :

- i) COPICS
- ii) Shop Floor Control and operation scheduling.

Q5 Write a detailed note on :

- i) Various stages and Features Variant Systems.
- ii) Different types of Variant Systems.

Q6 Describe in detail Generative Process Planning. Explain the following :

- i) Planning Modeling and Coding Scheme.
- ii) Decision Mechanism for software.

Q7 What do you mean by Artificial intelligence? Describe in detail the following :

- i) Search Strategies.
- ii) Resolution and Reduction System.

Q8 Describe the following in detail :

- i) Machine and Cutting tool Selection.
- ii) Knowledge Acquisition.