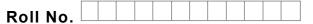


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Total No. of Pages : 02

Total No. of Questions : 08

M.Tech.(CAD/CAM) (E-IV) (Sem.-3) COMPUTER AIDED PROCESS PLANNING Subject Code : ME-520 M.Code : 23517

Time: 3 Hrs.

Max. Marks: 100

INSTRUCTION TO CANDIDATES :

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- 1. (a) Explain the various steps involved in the product design evaluation process with the help of a neat schematic diagram.
 - (b) What is meant by process planning? How does computer aided process planning differ from traditional process planning?
- 2. (a) What is a part family? Describe any one part classification and coding system with the help of a suitable example.
 - (b) What is production flow analysis? Explain the various steps of this approach.
- 3. (a) Describe the important features of the generative-type process planning. What are its benefits over the retrieval-type system?
 - (b) Explain how information flow takes place in a shop floor control system. Also discuss the documents that are generated during the process.
- 4. With the help of a neat diagram, explain how MRP is developed and structured. What are the various inputs of MRP? What are the types of outputs generated from the MRP software?
- 5. (a) What are computer generated time standards? Describe the application of computer generated time standards in CAPP with the help of suitable examples.
 - (b) Discuss the applications of Artificial Intelligence in automated process planning. with particular emphasis on machine and cutting tool selection.

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- 6. What is the difference between data and information? Explain how the Communication oriented Production information and control system is developed for a manufacturing system. Describe its major elements.
- 7. (a) With the help of a neat schematic diagram, explain how the retrieval type computeraided process planning system works.
 - (b) Discuss how scheduling is important in a manufacturing system. What are the advantages of computerized production scheduling?
- 8. Write short notes on :
 - (a) Operation sequence evaluation
 - (b) Machining cell
 - (c) Machinability data system
 - (d) Capacity Planning

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NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

2 M-23517

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