Total No. of Questions : 8.   Total No. of Printed Pages : 2

Roll No

MMIP-103
M.E./M. Tech. I Semester
Examination. December 2017
CAD/CAM/CIM

Time : Three Hours

Maximum Marks : 70

Note: i) Solve any five questions.
 ii) All questions carry equal marks.

1. a) Differentiate between parametric and variational modelings.
   b) Discuss product data exchange and concept of DXF, IGES and STEP.

2. a) Explain online and offline CAM.
   b) Discuss CIM wheel concept.

3. What is computer numerical control? Discuss its various types.

4. a) Explain Adaptive controls.
   b) Differentiate between absolute and incremental programming.

5. Write down the steps in programming lathe machine and milling machines.

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6. a) Explain computer assisted point programming.
   b) What are OPITZ systems explain?

7. a) Discuss anatomy and configuration of Robots.
   b) Enlist applications of Robots in engineering.

8. Write short notes on followings:
   a) Adoption strategies of FMS
   b) AGVs and their types
   c) Design for manufacturing and Assembly
   d) Automated storage and Retrieval systems

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