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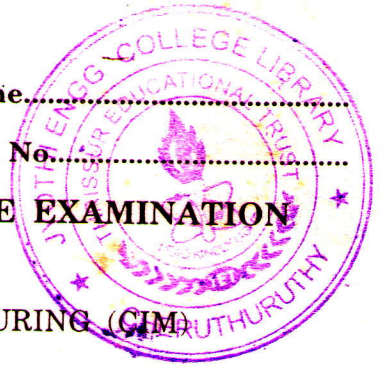Name...

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SIXTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION SEPTEMBER/OCTOBER 2007

M.E. 04—603—COMPUTER INTEGRATED MANUFACTURING (CIM)

(2004 admissions)

Time : Three Hours   Maximum : 100 Marks

Answer **all** *questions.*

I. Answer the following questions : —

   1. List the advantages of Numerical Control.
   2. Explain classification of NC system.
   3. Describe point to point programming ?
   4. Write notes on Programme Languages ?
   5. Briefly describe PLC.
   6. Write features of Opitz classification ?
   7. Explain FMS.
   8. Give examples of Industrial Robots.

                                                    (8 × 5 = 40 marks)

II. (a) Describe features of Incremental and absolute systems.

Or

   (b) Explain design considerations of NC Machine Tools.

                                                    (15 marks)

III. (a) Describe manual programming with examples.

Or

   (b) What is APT ? Explain.

                                                    (15 marks)

IV. (a) Explain ASRS ?

Or

   (b) Describe automatic data capture methods.

                                                    (15 marks)

V. (a) Write difference between on-line and off-line programming ? Give examples.

Or

   (b) List the benefits of F.M.S and give details of F.M.S. work stations.

                                                    (15 marks)

                                                    [4 × 15 = 60 marks]