

(Following Paper ID and Roll No. to be filled in your Answer Books)

PAPER ID : MD33

Roll No.

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M. TECH. (Sem.II)

THEORY EXAMINATION 2015-16

COMPUTER AIDED MANUFACTURING

Time : 3 Hours

Total Marks : 100

Attempt any five questions.

1. (a) Differentiate open loop and closed loop systems.

(b) What is the difference between ordinary and NC machine tools? Also write the methods for improving accuracy and productivity.

2. (a) Explain adaptive control system.

(b) Explain the working of BTR type of interface in DNC. Also write the advantages of DNC.

3. (a) Describe manual part programming briefly.

6. (a) Write down the advantages and disadvantages of computer integrated manufacturing (CIM) process.
- (b) Explain briefly the CNC machine control system.
7. (a) What are the basic elements of expert systems?
- (b) Explain briefly the expert systems application in manufacturing.
8. (a) Write short note on contouring motions in APT language with neat sketches.
- (b) Explain briefly the different statements used in APT language.
