

Roll No.

24484

B. Tech 7th Semester (ME)

Examination – May, 2018

COMPUTER INTEGRATED MANUFACTURING

Paper : ME-425-F

Time : Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

1. Explain the following :

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|-----------------------------|---|
| (a) NC procedure | 5 |
| (b) Manual part programming | 5 |
| (c) Application of Robot | 5 |
| (d) Computer aided testing | 5 |

UNIT - I

2. What are the Absolute and Incremental methods of positioning in NC and CNC Machine Tools ? 20
3. Classify the Automation Strategies of CAD/CAM and its objectives. 20

UNIT - II

4. (a) Explain the function of punched tape in numerical Control. 10
(b) Tube coding and format 10
5. List out the various types of statements in NC part programming. 20

UNIT - III

6. Describe the accuracy and repetability and end effector's and Sensor in robotics. 20
7. Discuss the followings :
 - (a) Fms workstations. 10
 - (b) Fms Technology 10

UNIT - IV

8. Describe the Contact and Non-Contact Inspection method, optical and Non-optical Method of Inspection. 20
 9. Classify the machine tools and related equipments and Computer Control Systems. 20
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