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 :

   (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 repeatability 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