

Roll No.

24484

**B. Tech. 7th Semester (ME) Re-appear
Examination – October, 2020**

COMPUTER INTEGRATED MANUFACTURING

Paper : ME-425-F

Time : 1.45 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 **three** questions. All questions carry equal marks.

1. (a) Define the CAD, CAM.
(b) What is motion statement in APT language ?
(c) What is FMS work structure ?
(d) What are benefits of CFMS ?
2. (a) What are various basics components of NC system ?

- (b) Explain the various NC coordinate system.
3. What is CNC ? What are the function of CNC ? What are its advantages ?
4. (a) What is computer assisted part programming ?
(b) What are post processor statements ?
5. Explain the following :
(i) Tape coding and format
(ii) Geometry statement
6. (a) What are different types of robot control ?
(b) What is automated guided vehicle system ?
7. Explain the following :
(i) Types of Conveyors
(ii) FMS Components
8. (a) What are different terminology in quality context ?
(b) Explain the non-optical inspection method ?
9. Explain the following :
(i) Function of computer in CIMS
(ii) Computer aided testing