

Roll No. ....

**23013/23063**

**M.Tech. 3rd Semester (M.E.)  
Examination – January, 2012**

**COMPUTER INTEGRATED MANUFACTURING**

**Paper : M-701**

*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. All questions carry equal marks.*

1. Define the CAD and CAM. Explain the various reasons for the automation in detail. 20
  
2. Define the NC, CNC, DNC system. Explain the basic components of NC, CNC system in detail. 20

3. What is Robot ? Explain the different types of common Robot Configuration. 20
4. Define the Automated Material Handling System ? Explain the various types of material handling equipments. 20
5. What is FMS ? Explain the different components of a FMS ? 20
6. Define the Computer Aided Quality Control. Explain the role of computer in QC ? 20
7. Write short note on the following :
- (1) NC Part Programming Languages, 10
  - (2) G code, M code. 10
8. What is the function of Computer in CIMS ? Also explain the benefits of CIMS. 20
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