

**DIPLOMA IN  
MECHANICAL ENGINEERING(DME)**

**Term-End Examination**

**June, 2013**

**BME-055 : COMPUTER INTEGRATED  
MANUFACTURING**

*Time : 2 hours*

*Maximum Marks : 70*

*Note : Answer any seven questions only. All questions carry equal marks.*

1. Discuss the scope of CIM in context of production and design. 10
2. Describe the operational flow within CAD/CAM. 10
3. Describe the advantages of using CMM over conventional inspection methods. 10
4. What are the different types of AGVs ? Explain any two in detail. 10
5. What are the different classification of robots on the basis of physical configuration ? Explain any two in detail. 10

6. What are the objectives for installing an automated storage system in a factory. 10
  7. Describe the following in detail :
    - (a) Machine flexibility 5
    - (b) Mix flexibility 5
  8. Describe in detail about Off line and On line inspection method. 10
  9. What do you understand by Flexible Manufacturing System ? Explain how it enhance the productivity ? 10
  10. Write various applications of the robots in industries. Explain any two in detail. 10
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