

01217

**DIPLOMA IN  
MECHANICAL ENGINEERING**

**Term-End Examination**

**June, 2011**

**BME-055 : COMPUTER INTEGRATED  
MANUFACTURING**

*Time : 2 hours*

*Maximum Marks : 70*

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*Note : Attempt any seven questions. All questions carry equal marks.*

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1. What do you understand by computer Integrated Manufacturing ? Write the benefits of CIM. 10
2. What is the importance of integrating the manufacturing enterprise ? 10
3. What do you understand by an automated inspection system ? Why inspection has become an essential part of any manufacturing system ? 10
4. What are the different types of AGVs ? Describe any one in detail. 10

5. Define an automated storage/ retrieval system (AS/RS). Write basic sets of operation performed by the automated storage and mechanized system. 10
  6. Describe the basic features of the physical components of FMS. 10
  7. Describe the different types of flexible Manufacturing systems. 10
  8. Define flexibility. What do you understand by machine flexibility and production flexibility ? 10
  9. What is scheduling ? How scheduling is different from sequencing ? Explain with the help of suitable example. 10
  10. What are the components of a basic CMM ? Describe the construction of CMM. 10
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