

**DIPLOMA IN MECHANICAL ENGINEERING
(DME)**

00081

Term-End Examination

December, 2015

**BME-055 : COMPUTER INTEGRATED
MANUFACTURING**

Time : 2 hours

Maximum Marks : 70

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

1. (a) Discuss the concept of CIM. 5
(b) Explain about the Computer Aided Process Planning. 5
2. (a) What do you mean by CAD/CAM ? 5
(b) Write short notes on Material Requirement Planning (MRP). 5
3. Describe the steps through which electronic data transfer takes place from the manufacturer to the supplier. 10

4. (a) What are the different types of Inspection ? 5
(b) Explain the Type I and Type II errors. 5
5. Discuss the mechanical structure of CMM with a neat sketch. 10
6. Name the different types of AGVs and explain any four of them briefly. 10
7. Discuss the Robotic applications in the industry. 10
8. (a) What are basic operations of AS/RS ? 5
(b) What are the objectives to be achieved by installing AS/RS ? 5
9. What is meant by flexibility ? Discuss the various types of flexibility. 10
10. Explain the components of FMS. Write the advantages of FMS over conventional manufacturing systems. 10
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