

**DIPLOMA IN MECHANICAL ENGINEERING
(DME)**

Term-End Examination

June, 2014

00310

**BME-055 : COMPUTER INTEGRATED
MANUFACTURING**

Time : 2 hours

Maximum Marks : 70

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

1. Describe the concept of CIM wheel with neat diagram. 10
2. Explain AS/RS components and its terminology. 10
3. What is Flexible Manufacturing System ? Write about types of FMS components. 10
4. Write about 'Robotic applications' in an industry for FMS Applications. 10
5. Describe the construction of Co-ordinate Measuring Machine (CMM) with its advantages. 10

6. Write about the types of AGVS Control Systems, and its application in industry. 10
7. What is the function of automated inspection ? Write about On-line/In-process and On-line/Post-process inspection methods. 10
8. Write about your understanding of CAD/CAM and discuss CAD/CAM relationship with CIM. 10
9. Write short notes on the following : 5×2=10
- (a) Benefits of CIM
 - (b) Just in Time
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