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BME-055

DIPLOMA IN MECHANICAL ENGINEERING(DME)

Term-End Examination

December, 2013

BME-055 : COMPUTER INTEGRATED MANUFACTURING

Time : 2 hours

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Maximum Marks : 70

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

- Explain briefly the different components in 10 AS/RS with sketch.
- Explain the use of robots in material handling 10 applications.
- What are the different types of FMS ? Explain any 10 one in detail.
- 4. What are the benefits and objectives of CIM ? 10
- "Quality can not be inspected, it has to be inbuilt 10 within the system" - Justify the statement with suitable examples.

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- 6. What are the factors causing error in manual 10 inspection and automated inspection ? Explain your understanding on inspection accuracy.
- What is a CMM ? Explain the various components 10 in CMM. Briefly describe the construction of CMM.
- What are the different components of a AGUS ? 10 Describe any one in detail.

9.	Explain the following in detail :		
	(a)	Product flexibility	5
	(b)	Machine flexibility	5

How are the robots classified based on control 10 system? Describe any one in detail.