

**DIPLOMA IN MECHANICAL  
ENGINEERING (DME)**

**Term-End Examination**

**June, 2019**

**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. (a) Draw CIM wheel and explain its concept. 5  
(b) List any *five* benefits of CIM. 5
2. Explain the role of material requirement planning (MRP) and computer aided design in the CIM environment. 10
3. Distinguish between IGES and PDES. Enumerate reasons for choosing PDES over IGES. 10
4. What do you mean by inspection accuracy ? Explain with the help of suitable examples. 10

5. What are the advantages of using CMM over conventional inspection methods ? Explain. 10
6. Briefly explain the different types of control systems used in AGVs. 10
7. Discuss any *five* applications of ROBOT in industry. 10
8. Explain all the terminology associated with AS/RS. 10
9. Define flexibility. Discuss the various types of flexibility. 10
10. List the main objectives of machine loading and also list the terminology associated with it. 10