

**DIPLOMA IN MECHANICAL ENGINEERING
(DME)**

Term-End Examination

June, 2015

00933

**BME-055 : COMPUTER INTEGRATED
MANUFACTURING**

Time : 2 hours

Maximum Marks : 70

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

1. (a) Explain the different types of production systems. 5
- (b) What are the potential benefits of CIM ? 5
2. Describe the fundamental concepts of CIM and differentiate between CAD and CAM. 10
3. (a) Describe briefly about MRP. 5
- (b) Discuss the various steps involved in Inspection procedure. 5
4. (a) What do you mean by inspection vs Testing. 3
- (b) Differentiate between off-line inspection and on-line inspection methods. 7

5. (a) Explain the design features of AGVS. 5
(b) Discuss the various types of guidance systems. 5
6. Classify Robots based on control system and briefly explain them. 10
7. Discuss any four factors in the design of AS/RS. 10
8. (a) Write a short note on Expansion Flexibility. 5
(b) Differentiate between Single and Dual command cycle times for unit load AS/RS. 5
9. (a) What is meant by FMS ? 3
(b) Describe the physical sub systems of an FMS. 7
10. (a) What do you understand by scheduling ? 3
(b) Explain the different dispatching rules. 7
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