

**B.Tech. MECHANICAL ENGINEERING
(COMPUTER INTEGRATED
MANUFACTURING)**

Term-End Examination

00922

December, 2016

**BME-005 : COMPUTER INTEGRATED
MANUFACTURING**

Time : 3 hours

Maximum Marks : 70

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

1. Give the scope of Computer Integrated Manufacturing (CIM). Discuss the various elements of CIM. 14

2. What are the different types of Inspection ? How do you classify the inspection systems ? Explain the steps involved in the inspection procedure. 14

3. (a) Differentiate among NC, CNC, Direct and Distributed Numerical Control.

(b) Explain the different types of CNC drive systems. 7+7

4. What is a sensor ? Describe various types of sensors. Differentiate between discrete event sensors and continuous sensors. 14
5. Discuss the recent manufacturing trends in FMS environment. 14
6. (a) What is a vision system ? Discuss the main functions of a vision system.
- (b) Describe the features of distributed database management system. 7+7
7. Write short notes on any *two* of the following : 7+7
- (a) Group Technology
- (b) Computed Aided Manufacturing
- (c) Automated Storage/Retrieval Systems
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