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**B.Tech. MECHANICAL ENGINEERING
(BTMEVI)**

Term-End Examination

December, 2013

**BIMEE-009 : COMPUTER AIDED
MANUFACTURING**

Time : 3 hours

Maximum Marks : 70

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

1. Discuss about the levels of Automation in Manufacturing. Also mention some advantages and disadvantages. **14**

2. Explain the classification of NC machine tools :
 - (a) Based on feedback control **7**
 - (b) Based on control system features. **7**

3. Write on manual programming for the following operations :
 - (a) Drilling **7**
 - (b) Turning **7**

4. Classify the different type of DC motor and discuss about the working and construction of any one. **14**

5. (a) Explain the components of FMS and FMS layout configuration. 10
(b) Discuss the applications of a FMS. 4
6. Explain retrieval and generative CAPP systems. 14
7. (a) Explain about different robot programming methods. 10
(b) List out motion commands used in VAL programming languages. 4
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