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

Term-End Examination

June, 2014

**BIMEE-009 : COMPUTER AIDED
MANUFACTURING**

Time : 3 hours

Maximum Marks : 70

Note : *Answer any five questions. Each question carries equal marks.*

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| 1. | (a) | List the basic elements of Automation. | 6 |
| | (b) | Discuss about the need for automation. | 8 |
| 2. | | Discuss the advantages, suitability and limitations of NC machine tools. | 14 |
| 3. | | Write the manual programming for the following operations. | |
| | (a) | Milling | 7 |
| | (b) | Drilling | 7 |
| 4. | | With a neat sketch discuss the following : | |
| | (a) | Open loop system | 7 |
| | (b) | Closed loop system | 7 |
| 5. | | Discuss the application, advantages and disadvantages of FMS. | 14 |

6. What do you mean by Group Technology (GT) ? 14
How parts are grouped together using GT ? Discuss the advantages and limitations of GT.
7. What do you mean by intelligent 14
manufacturing ? Explain, how the concept of artificial intelligence helps in achieving intelligent manufacturing.
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