SECOND SEMESTER M.Tech DEGREE EXAMINATION

M.Tech MECHANICAL ENGINEERING

SPECIALIZATION: COMPUTER INTEGRATED MANUFACTURING

STREAM ELECTIVE II

MCE 2007: RAPID PROTOTYPING, TOOLING AND MANUFACTURE

Answer any two questions from each module. Each question carries 10 marks.

Time: 3hrs Max Marks: 60mks.

MODULE I

- 1. a. Describe the term rapid Prototyping.
- 1. b.Explain the impact of rapid prototyping on product development.
- 2. Explain Digital prototyping and Virtual prototyping.
- 3. Describe Reverse engineering in detail.

MODULE II

- 4. Describe the working of Solid ground curing technique in detail.
- 5. Describe the working principle and apparatus used in Fused deposition modeling
- 6. Describe the details of processes of Laminated object manufacturing

MODULE III

- 7. a. Describe "Selective laser melting"
- 7. b.Explain the term Rapid manufacturing.
- 8. Explain the working principle of Selective laser sintering.
- 9. Explain Shape deposition manufacturing.