

R09

Code No: D0402

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech II - Semester Examinations, March/April 2011

FLEXIBLE MANUFACTURING SYSTEMS

(CAD-CAM)

Time: 3hours

Max. Marks: 60

**Answer any five questions
All questions carry equal marks**

1. Define flexible manufacturing system. Also, explain its evolution from mechanized machine to contemporary flexible manufacturing system. [12]
2. Explain various scheduling procedures applied to FMS. [12]
3. Discuss the functions performed by the FMS computer control system. [12]
4. Discuss the steps involved in scheduling I jobs in FMS. [12]
5. What results can be achieved with simulation? Explain the main steps involved in execution of a simulation. [12]
6. Discuss the use of deterministic models for quantitative analysis of FMS. [12]
7. List out the typical data handled by an FMS. Explain their role in detail. [12]
8. Write short note on any **three** of the following
a. Implementation issues of FMS.
b. Preventive maintenance.
c. Applications of simulation software.
d. Supervisory computes. [12]
