MEDC-202

M.E./M.Tech., II Semester

Examination, June 2013

Modeling and Simulation of Computer

Time : Three Hours

Maximum Marks : 70

Note: Attempt any five questons. All questions carry equal marks.

1. a) Give a brief introduction to discrete event system simulation.
   b) Discuss about the environments and components of system.

2. a) Give the applications of discrete event system simulation.
   b) Discuss the various steps involved in simulation.

3. a) Discuss about the useful statistical models.
   b) Explain the discrete distributions used while simulating a model.

4. a) Discuss the steady state behaviour of queue.
   b) How to measure the performance using queuing system property.

5. a) Explain about the distribution of p sendo random no.
   b) Discuss about the acceptance and rejection technique.

6. Explain following steps of modelling:
   a) Identification and distribution with data
   b) Parameter variation
   c) Multivariate models.

7. a) How is the output analysis done for single model.
   b) Discuss the types of simulation with respect to output analysis.

8. Write short notes on any two of the following:
   a) Poisson process
   b) Goodness of fit test
   c) Validation of simulated models.