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MEDC - 202

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

Examination, December 2014

Modeling and Simulation of Computer

Time : Three Hours

Maximum Marks : 70

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

1. a) Give the advantages and disadvantages of discrete event system simulation.
b) Elaborate on the various steps of simulation.
2. a) What are discrete and Homogeneous systems?
b) Give a general concept of discrete event simulation.
3. a) Give a brief overview of useful statistical models.
b) Explain about Poisson process and empirical distribution.
4. a) Give the transient and steady state behaviour of queue.
b) How to measure the performance using queuing system property?
5. a) Discuss about the distribution of pseudo random numbers.
b) Discuss about the acceptance and rejection technique.

6. a) Discuss about the parameter variation and goodness of fit tests in respect of modeling.
b) Explain about the multivariate and input models.
7. a) Discuss the types of simulation with respect to output analysis.
b) How to analyse terminating simulation?
8. Write short notes on any two of the following:
 - a) Test for random number.
 - b) Types of performance and their estimation.
 - c) Inverse transform technique of random number generation.
