Total No. of Questions :8] *[Total No. of Printed Pages :2*

Roll No .....

MEDC-202

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

Examination, December 2016

Modelling and Simulation of Computer

Time : Three Hours

Maximum Marks : 70

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

1. a) Describe all the general concept in discrete event simulation.
   b) Explain modeling and simulation methodology.

2. a) Differentiate between static mathematical models and dynamic mathematical models
   b) Discuss about the environments and components of system.

3. a) Give the applications of discrete event system simulation.
   b) Discuss about the useful statistical models.

4. a) Explain the discrete distributions used while simulating a model.
   b) Discuss the steady state behaviour of queue.

5. a) What is Queueing model? How it is useful for simulation?
   b) How to measure the performance using queueing system property?

6. a) Discuss the inverse transform technique in details.
   b) Discuss about the acceptance and rejection technique in detail.

7. a) Explain validation of experimental models testing and analysis.
   b) Explain the model building, verification and validation with the help of flow diagram.

8. Write short notes on :
   a) Poison process
   b) Random number and its generation
   c) Analytic Vs Simulation model

******