

Exam. Code : 208603

Subject Code : 3709

M.Sc. Information Technology 3rd Semester

SYSTEM SIMULATION

Paper : MIT-304

Time Allowed—3 Hours] [Maximum Marks—100

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

1. Define the term system. Discuss various types of systems. Also compare continuous and discrete systems.
2. Differentiate between :
 - (a) Monte Carlo computation and stochastic simulation.
 - (b) Analytic and Simulation Models.
3. Briefly discuss various characteristics of a queuing system. Also explain the simulation of single-server queuing system with the help of suitable example.
4. Write short notes on the following :
 - (a) Expression based languages.
 - (b) Block-structured continuous simulation languages.
5.
 - (a) Discuss the simulation of a water reservoir system.
 - (b) Briefly discuss the concepts of simulation of continuous system with the help of an example.

6. Briefly discuss Forecasting and regression analysis.
7. Discuss various factors in the selection of a discrete system simulation language.
8. Write short notes on :
 - (a) Generation of non-uniformly distributed numbers.
 - (b) GPSS.
 - (c) Simpack
 - (d) Gasp IV.

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