Exam. Code: 208603 Subject Code: 5248

## M.Sc. Information Tech. 3rd Semester

## MIT-304: SYSTEM SIMULATION

Time Allowed—3 Hours] [Maximum Marks—100

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

- 1. What is simulation? Briefly discuss the concepts of simulation of continuous system with the help of an example.
- 2. (a) Discuss various steps of mathematical modeling.
  - (b) Compare analytic and simulation models.
- 3. Briefly discuss various characteristics of a queuing system. Also explain the simulation of two-server queuing system with the help of suitable example.
- 4. Write short notes on the following:
  - (a) General Queues
  - (b) Block-structured continuous simulation languages.
- 5. Discuss the simulation of an inventory control system with the help of an example.

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- 6. Explain the generation of Poisson and Erlang variants.
- Discuss various features of continuous and discrete system simulation language.
- 8. Write short notes on:
  - (a) Generation of non-uniformly distributed numbers
  - (b) SIMULA
  - (c) Simpack
  - (d) CSIM.

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