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Exam. Code : 208603

Subject Code: 4721

M.Sc. Information Technology 3rd Semester SYSTEM SIMULATION

Paper—MIT-304

Time Allowed—3 Hours] [Maximum Marks—100

Note:— Candidates are to attempt *five* questions, *one* from each Section. Fifth question may be attempted from any Section. All questions carry equal marks.

SECTION—A

- 1. Briefly discuss:
 - (a) Concept of a system
 - (b) Continuous vs discrete system.
- 2. Define the concepts used in discrete system simulation with the help of an example.

SECTION—B

- 3. Explain the characteristics of a queuing system. Discuss the simulation of two-server queuing system with the help of suitable illustrations.
- 4. Write short notes on:
 - (a) Generation of Poisson and Erland variants
 - (b) Forecasting and regression analysis.

SECTION—C

- 5. Briefly discuss the features of GPSS and SIMULA.
- 6. Discuss various factors in the selection of a discrete system simulation language.

SECTION—D

- 7. Write short notes on:
 - (a) Analytical Vs simulation models
 - (b) Application of simulation to operating systems.
- 8. Discuss the simulation of a water reservoir system.

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