

C 29701

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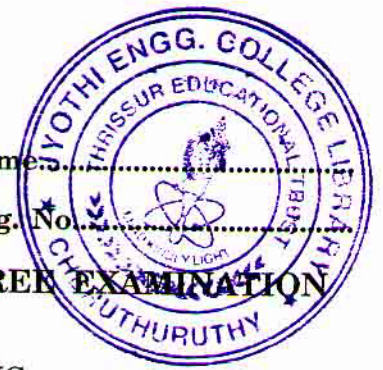
Name:

Reg. No.

**SEVENTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION
OCTOBER 2012**

CS 09 L23—SIMULATION AND MODELLING

(2009 Admissions)



Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. What is discrete system simulation ?
2. What is confidence interval ?
3. List the parameters of queue.
4. What is slack time ?
5. List the important parameters in queuing pattern.

(5 × 2 = 10 marks)

Part B

Answer any four questions.

6. Differentiate continuous and discrete systems.
7. Compare fixed time step and event to event model.
8. Discuss about the evaluation of simulation experiments.
9. Explain about the generation of service patterns.
10. Describe the simulation of stochastic network.
11. Write about the merits of simulation of stochastic networks.

(4 × 5 = 20 marks)

Part C

Answer all questions.

12. (a) Simulate a water reservoir system.

Or

- (b) Write notes on Gamma and normal distribution.

13. (a) Write about 5 GPSS block-diagram symbols.

Or

- (b) Describe the methods for validating simulation experiments.

Turn over

14. (a) Discuss about the formulation of queuing problems.

Or

(b) Write notes on simulation of tandem queues.

15. (a) Explain the simulation of PERT network.

Or

(b) Explain the simulation of forward and backward pass.

(4 × 10 = 40 marks)