

Name : .....

Reg. No. ....

## EIGHTH SEMESTER B.TECH DEGREE EXAMINATION, MAY 2012

## IT 04 804 E - SIMULATION OF MODELLING

Time: Three Hours

Maximum 100 Marks

**Part A***Answer all questions*

- I. (a) State the differences between continuous system simulation and discrete system simulation.
- (b) What is computer simulation? State its applications.
- (c) What is statistical reliability? How it is used in evaluating simulation experiment?
- (d) What are the features of GPSS?
- (e) Write notes on queuing systems.
- (f) Enumerate how simulation can be done for tandom queues.
- (g) Explain network diagram with an example.
- (h) List the merits of stochastic network.

(8 x 5 = 40 marks)

**Part B**

- II. (a) Explain gamma distribution with suitable example.  
*Or*
- (b) Brief on event scheduling and process interaction approach.
- III. (a) Discuss about verification and validation of simulation experiment.  
*Or*
- (b) Explain about SIMSCRIPT.
- IV. (a) Write notes on simulation of multi - server queues.  
*Or*
- (b) Explain with an example about simulation of tandom queues.
- V. (a) Explain forward pass computation with an example.  
*Or*
- (b) Brief about simulation of stochastic network.

(4 x 15 = 60 marks)

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