

Subject : I.T. Elective-III c) Simulation Modeling

Day : Wednesday
Date : 18/06/2014



Time : 02.00 P.M. TO 05.00 P.M.
Max Marks : 80 Total Pages : 1

N.B.:

- 1) Attempt any **FIVE** questions from Section-I.
 - 2) Attempt any **TWO** questions from Section-II.
 - 3) Figures to the right indicate full marks.
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SECTION-I

- Q.1** Discuss the following terms in brief; (10)
a) Modeling
b) Simulation
- Q.2** What is a pseudo-random number? Illustrate in detail. (10)
- Q.3** What is a Compiled Simulator? Illustrate with an example. (10)
- Q.4** Discuss various applications of Simulation in detail. (10)
- Q.5** Discuss the characteristics performance of Queuing Systems in detail. (10)
- Q.6** What is List Processing Simulation? Explain in detail. (10)
- Q.7** Write short notes on Any **TWO** of the following: (10)
a) Simulation Language
b) Simlib Program
c) Inventory models

SECTION-II

- Q.8** Explain various techniques used for increasing Validity and Credibility of Simulation Models. (15)
- Q.9** Discuss the use of Simulation Packages (Matlab/Simulink) along with appropriate example. (15)
- Q.10** Explain various statistical models involved in Simulation of a Queuing System. (15)

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