

Roll No

CS-7102

B.E. VII Semester

Examination, December 2016

Simulation And Modeling

Time : Three Hours

Maximum Marks : 70

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

1. a) Explain the different step involved in a simulation study. 7
b) Discuss the advantage, disadvantage and pitfalls of simulation. 7
2. a) Discuss the different types of simulation. 7
b) Explain continuous and discrete models with suitable example. 7
3. a) What is generalization of Growth models? 7
b) Discuss the concept of continuous uniformly distributed Random numbers. 7
4. a) Explain simulation of queuing system. 7
b) Write a short notes : 7
i) Normal distribution queuing
ii) Poison arrival patterns
5. a) What is Time series analysis and spectral analysis? 7
b) Discuss the concept of GPSS system. 7

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6. a) Compare continuous and discrete systems. 7
b) What is Monte Carlo method? 7
7. a) What is logistic curves and multi segment models? 7
b) Write various application of queuing theory in computer system. 7
8. Write a short notes (any two) : 2×7=14
a) Estimation methods
b) Static and dynamic system simulation
c) Digital-analog simulators
d) SIMSCRIPT

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