List of Topics Covered in Final Exam – Simulation Systems

- 1. Uniform random number generators and their combined forms.
- 2. Transformation method and its limitations.
- 3. Rejection method for continuous and discrete probability distributions.
- 4. Fundamentals of Markov models (stationary distribution, ergodocity, mixing time, simulation of steps, etc.)
- 5. Metropolis, Gibbs, importance and umbrella sampling method
- 6. Fundamentals of hidden Markov models (mathematical definition, simulation, etc.)

Note: You will not be asked for Matlab code in the exam.