Simulation and Modeling (5MCA5)
Question Bank

1. What is simulation? List a few advantages and disadvantages of simulation.
2. What do you mean by system modeling? Write difference between continuous and Discrete Systems
3. Differentiate between
   a. Continuous and Discrete Systems
   b. Deterministic and Stochastic activities
   c. Static Physical Models and Dynamic Physical Models
   d. Static Mathematical Models and Dynamic Mathematical Models
4. Write short notes on
   a. Monte –Carlo methods
   b. Numerical Computation Techniques
   c. Lag Models
   d. Distribute lag model
   e. Cow web model
5. What is Discrete system simulation?
6. Write short notes on GPSS. Explain at least 5 GPSS block-diagram symbols.
7. What do you mean by Action Times and Succession of Events.
8. Design a supermarket simulation model using GPSS symbols.
10. Write the different techniques of simulation output analysis.
11. What is the difference between spectral analysis and time series analysis?
12. What is a regenerative technique and autoregressive means?
13. What do you mean by replication of runs? What is batch means?
14. What is warehouse management? Explain the different factors affecting warehouse management.
15. What is project management?
16. What is queuing model? How it is useful for Simulation? Explain all different kind of Queuing Model in detail.