[2]

b) Explain discrete random variables and continuous random

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Total No. of Questions: 81

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B.E. VIII Semester

Examination, June 2017

Simulation And Modeling

(Elective - III) Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- What do you mean by system modeling? Explain.
 - Distinguish between open and closed system with examples.
- Explain continuous and discrete model with suitable example.
 - Explain the properties of a poisson process.
- For the M/M/L queue find the probability distribution of the number of arrivals during a service time.
 - b) Explain the characteristics of a queuing system list different queuing notations.

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www.rgpvonline.com www.rgpvonline.com Explain simulation in GPSS, with a block diagram, for the single server queue simulation. Write classification of simulation languages.

simulation?

variables with examples.

Explain petri net and their types with example.

- b) Differentiate between stochastic petri net and generalized stochastic petri net.
- Write various application of queuing theory in computer system.
 - b) Write different application of system simulation in operating system.
- 8. Write short notes on (any three):
 - Simulation in Network Architecture.
 - GPSS symbol and block.
 - Markov chains.
 - Probability distribution.
 - Digital-Analog simulation.

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