

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No

IT-711-GS

B.E. VII Semester

Examination, December 2020

Grading System (GS)

Simulation and Modeling

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. What is Simulation? List a few advantages and disadvantages of simulation.
2. Write a short note on:
 - a) Pitfalls of simulation
 - b) Monte Carlo method of simulation
3.
 - a) Discuss the concept of discrete and continuous probability functions.
 - b) Give the classification simulation software.
4.
 - a) Explain how probabilities and quantiles can be estimated from summary data?
 - b) Explain output analysis of terminating simulations with examples.
5.
 - a) What is logistic curves?
 - b) Discuss the concept of uniform and non uniform random numbers.

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[2]

6. Explain the Simulation package ARENA and DYNAMO
7.
 - a) Explain identifying the distribution with data with example.
 - b) Describe in detail the three step approach for model validation.
8. Write a short notes (Any two)
 - a) Feedback system
 - b) Stochastic variable
 - c) Queuing system

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