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Total No. of Pages : 02

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B.Tech.(CSE) (2011 Onwards) (Sem.-6) SIMULATION AND MODELING Subject Code : BTCS-601 M.Code : 71107

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt ANY FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt ANY TWO questions.

SECTION-A

Answer briefly :

- 1. How can we offset the disadvantages of simulation?
- 2. Define "Attribute" and "Activity" in the context of system simulation.
- 3. Describe Kendal-Lee notation for a queuing system.
- 4. What is hold and store block GPSS?
- 5. Mean and variance of Weibull distribution.
- 6. System capacity in context of queue system.
- 7. Define Chi-square test.
- 8. What is confidence interval estimation?
- 9. How the sample size is decided in simulation.
- 10. Dynamic mathematical model.



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SECTION-B

- 11. Explain Steady State behaviour of Finite population.
- 12. Explain auto correlation Test for random numbers.
- How can you select input model without data? Explain with example. 13.
- 14. Describe in detail the three step approach for model validation?
- 15. What do you mean by time advance mechanisms in simulation? Discuss next-event time 5advance approach with flowchart.

SECTION-C

- What is system simulation? Explain the steps involved in simulation study with 16. flowchart.
- What is inverse transformation technique? Explain how it is used for producing random 17. Jisadvantages of simulation. b. Monte Carlo Simulation. variants from exponential distribution.
- 18. Explain the following :

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.