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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
Paper ID : [A2306]

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

1. Write briefly :

    1. What do you mean by system modeling?

    2. Define the Simulation.

    3. Differentiate between Event and activity.

    4. What are random numbers?

    5. Differentiate between Discrete and continuous system.

    6. How to formulate the model for dynamic system?

    7. What is Acceptance-rejection technique?

    8. What are exponential growth model?

    9. What is multiple linear regressions?

    10. What is the difference between Validation and Verification

SECTION-B

2. Give some advantages and disadvantage of Validation in Simulation.

3. What is the difference between static and dynamic model?

4. Explain the simulation of queuing system.

5. Explain statistical properties of random numbers.

6. Write short note on statistical output analysis.

SECTION-C

7. Enumerate the different type of queuing models.

8. What is the Simulation language? Discuss the different kinds of simulation language.

9. Name any two simulation software packages and explain in details the capabilities of the software.