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Ph.D Examination
MODELING AND SIMULATION (CIVIL)
Subject Code : PHDOE-17002
M.Code : 78007

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

- Q1. a) Differentiate between Physical and Mathematical model.
b) Discuss the mid square random number generator.
- Q2. a) What are the advantages and disadvantages of validation in simulation?
b) Differentiate between static and dynamic model.
- Q3. a) Explain the simulation of queuing system.
b) Write a note on statistical output analysis.
- Q4. Develop a dynamic model of study the market for CTV in a planned city. Make assumptions.
- Q5. Write an algorithm for simulation token passing protocol in any of the simulation languages.
- Q6. a) What are different phases in simulation study?
b) Differentiate between discrete and continuous distribution.
- Q7. Explain model validation and verification in detail.
- Q8. What is network simulator? How simulation is playing an important role in networking?

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.