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Total No. of Questions: 09

MCA. (Sem.-5) SYSTEM SIMULATION & MODELLING

Subject Code: MCA-504 M.Code: 90003

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students has to attempt any ONE question from each SECTION.
- SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.

SECTION-A

- Write a detailed note on types of models.
- What are the various models classified in simulation? Explain.

SECTION-B

- What are random numbers? Explain any one method.
- Differentiate between fixed time step and event-to-event model.

SECTION-C

- Explain the concept of simulation queuing system.
- Discuss the simulation of two server queue with example.

SECTION-D

- Discuss the simulation of telephone system.
- Explain in detail about GPSS.

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SECTION-E

9) Write briefly:

- a) Explain the term Stochastic Activities.
- b) System simulation
- c) System design
- d) Differentiate between Continuous and Discrete Systems.
- e) Probability
- f) Queuing system
- g) Service time
- h) Properties of model
- www.FirstRanker.com i) Open and closed system
- j) Polling

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.

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