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Seat No.	
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[4966]-5006

M.C.A. (Commerce Faculty) (SEMESTER V) EXAMINATION, 2016
507 : SYSTEM SIMULATION & MODELING
(CREDIT SYSTEM)
(2013 PATTERN)

Time : Three Hours

Maximum Marks : 50

N.B. :— (i) Attempt *All* the questions.
(ii) Figures to the right indicate full marks.

1. Attempt any *two* : [2×7=14]
 - (a) What are advantages and disadvantages of simulation ?
 - (b) What is list processing ? Explain.
 - (c) Explain the properties of random number and its consequences.

2. Attempt any *two* : [2×6=12]
 - (a) Explain the linear congruential method for random number generation.
 - (b) Explain different acceptance rejection techniques.
 - (c) With example explain the various types of discrete distributions.

3. Attempt any *two* : [2×6=12]
 - (a) Explain data collection with example.
 - (b) Explain stochastic nature of output data with example.
 - (c) Explain characteristics of queuing system.

4. Attempt any *two* : [2×6=12]
 - (a) List types of models. Explain static mathematical model.
 - (b) Explain briefly the various steps of input modeling.
 - (c) Explain the output analysis for Terminating simulation.

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