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Course: MBA, Program: Business Analytics
Subject: Simulation Modelling, Code: MAN-903
Semester: III

Time: 03 Hours

Max Marks: 70

Instructions to the Students:

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of short answer type. All questions are compulsory. Each question carries Two (02) marks.
3. Section B comprises 8 long answer type questions out of which students must attempt any 5. Each question carries Ten (10) marks.
4. Do not write anything on the question paper.

Q.No.	SECTION –A (SHORT ANSWER TYPE QUESTIONS)	Marks
1. a	Define Simulation.	(2)
b	What are the steps in simulation study?	(2)
c	What are the disadvantages of simulation?	(2)
d	When is simulation appropriate and when it is not?	(2)
e	Name the different simulation languages.	(2)
f	List the properties of random number.	(2)
g	Illustrate the use of simulation in queuing.	(2)
h	Discuss the necessity of validation of simulation models.	(2)
i	Define parameter Estimation.	(2)
j	What is random variate?	(2)
SECTION –B (LONG ANSWER TYPE QUESTIONS)		
2.	Discuss the various techniques for generating random numbers.	(10)
3.	Differentiate between Continuous and Discrete simulation systems.	(10)
4.	Demonstrate the process of data collection for input modelling analysis.	(10)
5.	What is meant by Goodness of fit Tests? Write the procedure for the same.	(10)
6.	Outline the issues in the simulation of manufacturing system.	(10)
7.	Explain in detail the verification of simulation model.	(10)
8.	Sketch the guidelines for model building in detail.	(10)
9.	Describe the simulation of an inventory system with a neat diagram.	(10)

===END OF PAPER===