ASSIGNMENT QUESTIONS

Academic Year	**2020-21**		
Batch	2018-2022		
Year/Semester/section	**3/6/A&B**		
Course Code-Title	System Modelling and Simulation		
Name of the Instructor	Dr Rekha B Venkatapur	**Dept**	**CSE**

Assignment No: 1 **Total marks:10**
Date of Issue: 18-5-2021 **Date of Submission: 22-5-2021**

Sl.No	Assignment Questions	K Level	CO	Marks
1.	Customers arrive at a checkout counter at random from 1 to 10 Mins apart with equal probabilities. The service times have the following distribution **Service Time** | **3** | **5** | **6** | **8** Probability | 0.2 | 0.35 | 0.2 | 0.25 S imulate the checkout counter for 10 customers using the following data Random Digits for Inter Arrival Time **91** **72** **15** **94** **30** **92** **75** **23** **30** Random Digits for Service Time are given below **84** **10** **74** **53** **17** **79** **91** **67** **89** **38**	K3	**1**	2
2	Organize the situations when simulation is appropriate and when it is not	K3	**1**	2
3	Identify the categories of systems with examples	K3	**1**	2
4	a. Construct Event Scheduling Time Advance algorithm with relevant snap shots b. Develop different methods to generate events.	K3	**2**	2
5.	Develop a cumulative distribution function to measure the probability of a random variable	K3	**2**	2

Course in charge HOD