QP Code: 8614

(20)

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(3 Hours)

[Total Marks: 100

-	1) Question No. 1 is compu 2)Attempt any four question		g six questions.			
y	$\mathcal{J}_{\mathcal{F}_{n}}^{\mathcal{F}_{n}} \leftarrow \mathcal{J}_{\mathcal{F}_{n}}^{\mathcal{F}_{n}} + \mathcal{J}_{\mathcal{F}_{n}$	Maria State	E CONTRACTOR CONTRACTO			
Q-1	a) Define System state, Event notice, Activity, Event list, Delay and Clock.					
	b) Explain different steps	in simulation study.		14	(10)	
Q-2	 a) Describe the Event Scheduling Time Advanced Algorithm. b) How would you select simulation software? Mention the features of any one simulation software. 				(10)	
Q-3	a) State the properties of random numbers. How are random numbers generated? b) What do you understand by "Goodness of Fit Test"? Write the procedure for the same.					
Q-4	a) Perform the simulation numbers 4, 1,8,5,2 and de	a) Perform the simulation of the Inventory System. Daily demand is represented by the random (10) numbers 4, 1,8,5,2 and demand probability is given by				
	jajakan arang	Demand 0	Probability 0.2 0.5			
	If the initial inventory is	2 4 units, determine on	which day se shortage	condition occurs.		
	b) Explain Poisson Proces	ss along with its prope	erties.	B	(10)	
Q-5	a) Explain the following v I. Terminat II. Non-term	ing Simulation inating Simulation		er in the second	(10)	
90 Jan	b) Define Correlation and	Covariance Explain	Time series Model.		(10)	
Q-6	a) Give the equation for st b) Explain in detail verific	eady state parameters	s of M/G/1 queue and Do	erive M/M/1 from M/G/1.	(10) (10)	

Write Short note on (any two)
a) Inverse Transform Technique.
b) Issues in the simulation of manufacturing system.
c) Cobweb Model.

Q-7