SH	AHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, FEROZEPU	R
	L NO : Total number of pages	
Total	number of questions:06	110.41
	B.TechCSE/ 6th Sem	
	Simulation and Modeling	
	Subject Code: BTCS-601 (RP)	
	Paper ID: M/18	
Tir	ne allowed: 3 Hrs Max Market	10
	tant Instructions: (2011-2014 batch)	,,,
	All questions are compulsory	
	PART A (10 x 2 marks)	
Q. 1.	Answer in brief:	
	(a) Write any two advantages of simulations.	
	(b) What is dynamic allocation?	
	(c) Differentiate between event and activity.	
	(d) What is the multiple linear regression?	
	(e) Differentiate between verification and validation in simulation.	
	(f) Briefly explain applications of queuing model.	
	(g) Differentiate process orientation with event orientation.	
	(h) What is meant by convolution model?	
	(i) Differentiate discrete vs continuous distribution.	
	(j) What is testing of random number?	
N Day	PART B (5 × 8 marks)	
Q2.	What is system and system environment? Explain the components of system with a example.	n
	OR	9
	How simulation model is compared with real world system? What are various phase	COL
Q3.	required in study of simulation? Which are the main industries where simulation is used? Explain any tool used by the OR	
	Explain queuing models having non-exponential distributions.	CO2
01	What are the tests for testing the randomness of numbers generated? Explain.	
Q4.	OR	
	Explain finite and infinite calling population model. Demonstrate their use.	CO3
Q5.	Discuss chi-square and chi-square with equal probabilities.	
4.	OR	
	What do you mean by "model validation and verification"? Explain.	CO4
Q6.	How can we ensure optimization using simulation? Justify with an example.	
	OR Write short note on a) Simulation of token passing protocols b) Traffic modelling	CO5
	Wests chart note on at Similation of taken bassing officious of frame modeling	THE REAL PROPERTY.