Total No. of Printed Pages:01

SUBJECT CODE NO:- H-1799 FACULTY OF SCIENCE AND TECHNOLOGY M.E. (CSE/SE)

Computer Network Protocol Design (EL-1 on SE)

[Time: Three Hours]		ours] [Max. Marl	ks: 80
N.B		Please check whether you have got the right question paper. 1) Attempt any two questions from each Section. 2) Assume suitable data wherever necessary. 3) Be specific to every answer.	
		Section A	30/7
Q.1		What is Probability Density Function? Explain its use. What is random process? Explain deterministic and non-deterministic processes.	10 10
Q.2	a) b	Derive Markov Chain Transition Matrix. Give its properties. Explain Discrete time Markov Chains. Write a note on Eigen value and Eigen vector.	10 10
Q.3	a)	Queue.	
	b _.	Model M/M/1/B Queue. Section B	10
Q.4	a) b)	Explain stop and wait ARQ protocol. Give token bucket algorithm for single arrival single departure model.	10 10
Q.5	/_	What are flow traffic Models? Explain memory less Poisson Process. Describe on-off model. Write a note on autoregressive model.	10 10
Q.6	49 NY _ U'	Explain Weighted Round Robin Scheduler (WRR). What are various scheduler design issues?	10 10

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