Total No. of Printed Pages:1

SUBJECT CODE NO: E – 8197
FACULTY OF ENGINEERING AND TECHNOLOGY
M.E. (CSE/SE) Examination Nov/Dec 2017
Computer Network Protocol Design (EL-1 on SE)
(Revised)

[Time: Three Hours] **[Max.Marks:80]**

Please check whether you have got the right question paper.

N.B
1) Solve any two questions from each section.
2) All question carry equal marks.

Section A

Q.1 a) Describe Poisson Process in detail? Compare deterministic and non – deterministic processes. 10
b) Describe cross – correlation function. With suitable example. 10

Q.2 a) Explain discrete - Time Markov chain with example. 10
b) Describe 'Transition matrix of Reducible Markov chains. 10

Q.3 Write short Notes on (**Any Four**) 20
1) Queue Throughput
2) M|M|1 Queue
3) Transient Analysis
4) M| D| I| B Queue
5) ARQ performance
6) Covariance matrix.

Section B

Q.4 a) Describe Modulated Poisson Processes. 10
b) Explain discrete time modelling. 10

Q.5 a) Describe Self – Similarity and Random Process. 10
b) Explain Packet Droping and packet selection Policy. 10

Q.6 Write short Notes on any four 20
1) Max – min fairness scheduling
2) Rate Based Vs credit Based scheduling
3) Poisson Traffic Description
4) ARQ Performance
5) Modeling of Leaky Bucket Algorithm
6) Modeling of Token Bucket Algorithm