Code: CS5T3

III B.Tech - I Semester – Regular/Supplementary Examinations October 2019

COMPUTER NETWORKS

(COMPUTER SCIENCE AND ENGINEERING)

Duration: 3 hours

Max. Marks: 70

PART – A

Answer *all* the questions. All questions carry equal marks 11x 2 = 22 M

- 1. a) Define computer Networks.
 - b) Can you write the difference between circuit-switched and packet switched networks?
 - c) List any four Application layer protocols and its uses.
 - d) Can you define three way handshaking protocol in TCP.
 - e) Write the difference between error detection and correction.
 - f) Compare TCP and UDP.
 - g) Can you define DNS and its services.
 - h) What is count-to-infinity problem.
 - i) Define the classes of addressing in Internet.
 - j) Define Random access method for medium access mechanisms.
 - k) What is SMTP and its usage.

Page 1 of 2

PART – B

Answer any <i>THREE</i> questions. All questions carry equal matrix $3 \ge 16 = 4$	
2. a) Can you explain components and categories of data communication in detail.	8 M
b) Compare TCP/IP and OSI Model.	8 M
3. a) Sketch the UDP Datagram Format and explain the services of UDP.	8 M
b) How would you summarize that Go-back-N protocol(GBN) improves the efficiency of transmission.	8 M
4. a) Explain in detail about HTTP protocol.	8 M
b) Can you explain in detail about FTP protocol?	8 M
5. a) What are the various mechanisms to translate IPv4 to IPv6.) 8 M
b) How would you explain the Distance vector (DV)rou algorithm with an example.	uting 8 M
 a) How would you interpret in your own words about MAC protocols in Wirless LANS. 	8 M
b) Can you explain different types of transmission med Explain them in detail.	lia? 8 M