

15 MAR 2019

Code: 3598

M.Sc. (IT) Semester – 3

Paper 9: Data Communication and Network

Time: 02:30 Hours

Total Marks: 70

Q-1 Answer the following question

- A What is computer network? What is internet? Give brief explanation. 07
B Write a note on layered architecture of internet. 07

OR

- A What is protocol? Explain any five protocols with example. 07
B Give detail introduction of Internet. 07

Q-2 Answer the following question

- A Explain socket programming with a suitable example. 07
B Differentiate : HTTP and DNS. 07

OR

- A Discuss various protocols associated with application layer in brief. 07
B Explain the terms: HTTP, FTP, SMTP and DNS. 07

Q-3 Answer the following question

- A Write a note on : transport layer. 07
B Explain congestion control in detail. 07

OR

- A Write a note on TCP. 07
B Explain protocols bound with transport layer. 07

Q-4 Answer the following question

- A What is LAN? Explain LAN addressing. 07
B Explain the terms : Routing, ARP and PPP in detail. 07

OR

- A Discuss Network layer of OSI reference model in brief. 07
B What is routing? Explain routing algorithm in detail. 07

Q-5 Answer the following question

- A Discuss types of security necessary for network. 07
B What is network management? Discuss some of the applications of network management. 07

OR

- A Why network management is needed? Who needs it? Why? 07
B What is network security? Why is it essential to secure any of the network? 07