

October-2015

M.sc.IT Semester – III

Paper No – 9: Data Communication and Network

Paper Code: 3598

Time: 2:30 Hours

Marks: 70

Q-1 Answer the following question [14]

- (A) Explain: internet as a WAN.
- (B) What is Protocol? List various protocols and explain any one.

OR

Q-1 Answer the following question [14]

- (A) Write note on architecture of internet
- (B) Write a note on use of Internet and its services.

Q-2 Answer the following question [14]

- (A) Differentiate HTTP and FTP.
- (B) Write note on SMTP and MIME.

OR

Q-2 Answer the following question [14]

- (A) Write a note on DNS
- (B) What is socket programming? Explain

Q-3 Answer the following question. [14]

- (A) Explain IP address in detail.
- (B) Write a detail note on congestion.

OR

Q-3 Answer the following question. [14]

- (A) Explain method of TCP connection establishment and transmission method.
- (B) Differentiate connectionless and connection oriented protocols.

Q-4 Answer the following question [14]

- (A) Explain Distance vector routing algorithm.
- (B) Write a note on network service model

OR

Q-4 Answer the following question [14]

- (A) Write note on ARP.
- (B) Explain Ethernet frame structure

Q-5 Answer the following question [14]

- (A) Explain Confidentiality, Integrity, Availability in computer security
- (B) Write a note on different types of Firewall.

OR

Q-5 Answer the following question [14]

- (A) Write a note on role of router in of network security.
- (B) Write note on network security services.