

Computer Networks
(IT-358, June-07)

Note: Attempt five questions in all, selecting one question from each unit.

UNIT-1

1. a) Compare Broadcast networks and point to point networks in concern to transmission technologies.
b) Describe the function of each layer of OSI model.
2. a) What are the different types of co-axial cables? Compare the broadband and baseband co-axial cables.
b) Explain the working of Router, Bridges and Hub. What are the different OSI layers on which these operate?

UNIT-2

3. Explain following:-
 - i) FTP
 - ii) SNMP
 - iii) SMTP
 - iv) ICMP
 - v) Domain Name system.
4. a) Write the note on the media used in wireless networks.
b) Why subnetting is done? How subnet mask is obtained and how network addresses is fetched from subnet mask?

UNIT-3

5. a) How Simplex stop and wait protocol helps in preventing sender from flooding the receiver with data?
b) Explain the working of 1-bit sliding window protocol.
6. a) Explain distance vector routing algorithm. Also give example along with routing tables to justify your answer.
b) explain the process of tunneling packets from a source network to same type destination by passing through the different types of networks.

UNIT-4

7. a) explain the process of establishing connection using three way handshake with the help of suitable diagrams.
b) Describe the structure of ATM adaption layer.
8. a) What do you mean by firewalls? How these help in maintaining security?
b) How proxy server helps browser in resolving HTTP requests?