

M.C.A. IInd Year Third Semester (CGS)
15522 : Computer Networks : 3 MCA 4

P. Pages : 2
Time : Three Hours



AW - 3612
Max. Marks : 80

- Notes :
1. Assume suitable data wherever necessary.
 2. Illustrate your answer necessary with the help of neat sketches.
 3. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) What is packet loss? State and explain solution to this problem. 7
b) What is DNS? Explain the hierarchy of DNS servers? 7

OR

2. a) Explain the authentication procedure in HTTP. 8
b) Explain the layered architecture in networking model. 6
3. a) What is flow control? How is it related to congestion control? 7
b) Explain the two basic approaches towards pipelined error recovery (GBN and SR protocol). 7

OR

4. a) Describe the services provided by UDP. State its advantage over TCP. 7
b) Explain the services provided by Transport layer? 7
5. a) Explain the Link-State (LS) Routing algorithm in detail. 7
b) What is multicast routing? Explain. 6

OR

6. a) What is hierarchical routing? Explain the not-potato routing in brief. 7
b) Explain the protocol "RIP" used for routing. 6
7. a) Explain the working of CSMA/CD protocol. 7
b) Describe the Address Resolution protocol. 6

OR

8. a) List and describe the services provided by Data Link Layer. 7
b) Explain the Random Access Protocol in detail. 6

9. a) What is authentication? Explain. 6
b) What is a key? Explain the symmetric key. Cryptography technique. 7

OR

10. a) Give a brief note on message digests. 6
b) What is Intrusion? Explain types of Instructor. 7
11. a) What is firewall? Explain its role in network security. 7
b) What is SMI? Explain. 6

OR

12. a) What is MIB? Explain. 6
b) Explain the ASN1 Standard used in network management. 7
