

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]
(2125)

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MCA 2nd Semester Examination
Computer Networks (NS)
MCA-205

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all, selecting one question from the sections A, B, C and D. Section E is compulsory.

SECTION - A

1. Discuss the functions of major layers of TCP/IP reference model. (12)
2. What are the major types of attacks on Computer Society? Discuss the algorithm for network security. (12)

SECTION - B

3. How framing is carried out by Data Link Layer? Discuss the different techniques for framing. (12)
4. Discuss the following techniques:
(a) FDMA (b) TDMA (12)

SECTION - C

5. How flooding and distance vector routing algorithm helps in routing by Network Layer? Explain. (12)
6. What is the role of Transport layer? Discuss the elements of transport protocols. (12)

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SECTION - D

7. Explain the following application layer service protocols.
(a) DNS (b) FTP (12)
8. What is the role of TCP and UDP in socket programming? Explain. (12)

SECTION - E

9. (a) What is the significance of Digital Signatures?
(b) Define the term FIREWALL.
(c) VOIP stands for_____
(d) List the role of 802.11.
(e) What is meant by Polling?
(f) What is the concept of Noisy channel?
(g) Define the term datagrams.
(h) Write the syntax of IP Address.
(i) What is meant by Mobile IP?
(j) List the uses of www.
(k) What is meant by Thread?
(l) How ipconfig is used? (1×12=12)