

K-9/2/10

744/NN

Time: 3 hrs-

Press Copy

M.M. 70

Total Number of Sheets Used: 1

Total Number of Questions: 9

Title of the Paper: Computer Networks (MS-214)

Maximum Marks: 70

Minimum Pass Marks: 35%

Note: Candidates are required to attempt five questions in all, selecting two questions each from sections A and B and entire section C.

Section - A

Q1. (a)	Explain any two functions of data link layer with an example.	5
(b)	Explain the working of CSMA Protocol.	5.5
Q2.	Why there is a need for layered designing for networking and communication? Compare the TCP/IP and OSI reference models.	10.5
Q3.	Discuss in detail about the original ARPANET design.	10.5
Q4.	What are the different classes of bridges? Explain with neat sketches.	10.5

Section - B

Q5.	What is congestion and what are its causes? Compare open loop and closed loop congestion control. Explain Token bucket algorithm for congestion control.	10.5
Q6.	Explain Distance Vector routing algorithm with an example.	10.5
Q7.	Explain HTTP with an example.	10.5
Q8.	Write a short note on the following: (a) FDDI, (b) HIPPI	10.5

Section - C

Q9. (a)	What are the uses of computer network?	4
(b)	What is the back off time strategy in CSMA CD?	4
(c)	What is the difference between a gateway and router?	4
(d)	What is fiber channel used for? Discuss.	4
(e)	What is IPv6 used for?	4
(f)	What is SMTP format? Is SMTP still used?	4
(g)	How many types of network security attacks are there? Discuss.	4