

T.E. (Information Technology) (Semester – II) Examination, 2010 COMPUTER NETWORK TECHNOLOGY (2003 Course)

Time: 3 Hours Max. Marks: 100

- N.B.: 1) Answers to the two Sections should be written in separate books.
 - 2) Neat diagrams must be drawn wherever necessary.
 - 3) Assume suitable data, if necessary.

SECTION - I

1.	a)	What do you mean by congestion? Discuss the open-loop and closed-loop congestion control mechanism?	8
	b)	What is the purpose of ARP and RARP? What is the size of Ethernet frame carrying an ARP packet?	8
		of a series five areason network management and explain AO necessity of ea	
2	a)	Discuss the design issues of the network layer.	8
	b)	Draw and explain IPv4 header format?	8
3.	a)	Explain TCP with its header format.	8
	b)	Explain the three way of handshake for connection establishment in TCP. OR	8
4.	a)	Explain UDP header format and two applications of UDP.	8
	b)	List and discuss the performance issues of transport layer.	8
5.	a)	Explain the function of E-mail system.	6
	b)	Explain static, dynamic and active pages.	6
	c)	What do you mean by statelessness and cookies? Explain. OR	6

d) IEEE 802.11.