USI	N					0	8SCN12
	Fi	rst Semester M.				-July 200	9
			Computer	Network	s		
Ti	me:	3 hrs.				Max. Mar	ks:100
			Note : Answe	er any FIVE fi	all question	s.	
1	b.	Briefly explain about How do you measur Consider a point to delay (at a speed of	idth would pr				
		512 byte packets?					(06 Marks)
2		Find the code – word for a message $x^7 + x^4 + x^3 + x$ using a CRC polynomial of					(07 Marks) of (06 Marks)
	c.	How FDDI differs from token ring? Explain the operation of FDDI.					(07 Marks)
3		Explain with example the following approaches to switching: i) Datagram ii) Virtual circuit iii) Source routing. Write a note on ATM cell switching.					
4	b.	Write a note on fragmentation and reassembly of IP packets. (07					
5	b.	Explain the operation of routing for mobile hosts. (06 Marks) What is subnetting? Explain with an example. (07 Marks) Suppose a router has built up the routing table shown in Table Q5(c). The router can deliver packets directly over interfaces 0 and 1 or it can forward packets to routers R2, R3 or R4. Assume the routers does longest prefix match. Describe what the router does with a packet addressed to each of the following destinations. i) 128.96.171.92 ii) 128.96.163.151 iii) 128.96.169.192 iv) 128.96.165.121.					
			Subnet Number	Table Q5(c) Subnet Mask	Next Hop		(07 Marks)
	•		128.96.170.0 128.96.168.0 128.96.166.0 128.96.164.0 (default)	255.255.254.0 255.255.254.0 255.255.254.0 255.255.254.0 255.255.252.0	Interface 0 Interface 1 R2 R3 R4		
6		Write a note on TCP header format.  (06 Marks Explain with neat diagram the Three – way handshake algorithm of TCP connection establishment and termination.  (07 Marks Explain the adaptive retransmission mechanism with original algorithm for computing a timeout value between a pair of hosts.  (07 Marks)					
7		What do you mean by RPC mechanism of client – server interaction? Explain complex RPC mechanism with diagram.  (08 M Explain the following queuing disciplines: i) FIFO ii) Fair queuing. (12 M					
8	a.	rite short notes on the Random Early Deter SNMP	The second secon	c. DNS · d. Overlayin	ng Networks		(20 Marks)