(08 Marks)

On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross 2. Any revealing of identification, appeal to evaluator and /or equat

Sixth Semester B.E. Degree Examination, June/July 2013 Computer Networks II

Time: 3 hrs. Max. Marks: 100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

PART - A

PARI – A				
1	a.	Differentiate between connection-oriented and connectionless services.	(04 Marks)	
	b.	Explain and derive delays in datagram packet switching.	(08 Marks)	
	c.	Define routing algorithm. Explain the Bellman-Ford algorithm with an example.	(08 Marks)	
2	a.	Explain the FIFO and priority queue scheduling for managing traffic at packet lev	and priority queue scheduling for managing traffic at packet level.	
			(08 Marks)	
	b.	Suppose that ATM cells arrive at a leaky bucket policier at times $t = 2, 3, 6, 9,$	11, 16, 23,	
		24, 25, 26 and 30. Assume $I = 4$ and $L = 6$. Plot the bucket content and ic	lentify any	
		non-conforming cells.	(08 Marks)	
	c.	Write a note on traffic management at the flow aggregate level.	(04 Marks)	
3	a.	Explain the format of IPV4 format header.	(08 Marks)	
	b.	With a neat diagram, explain UDP datagram.	(08 Marks)	
	c.	Write a note on internet control message protocol (ICMP).	(04 Marks)	
4	a.	With a neat diagram, explain the format of the TCP segment.	(08 Marks)	
	b.	Explain the Border Gateway Protocol (BGP).	(08 Marks)	
	c.	Write a note on Network Address Translation (NAT).	(04 Marks)	
	٠.	The a note on the work radicos translation (1771).	(04 Maiks)	
PART – B				
5	a.	Explain the remote login protocols.	(08 Marks)	
	b.	Explain the RSA algorithm with an example.	(08 Marks)	
	c.	Write a note on firewals.	(04 Marks)	
6	a.	With a neat diagram, explain the integrated services QoS.	(08 Marks)	
	b.	Explain multiprotocol label switching (MPLS) operation and packet format.	(08 Marks)	
	c.	Write a note on virtual private networks.	(04 Marks)	
7	a.	List and explain the compression methods without loss.	(08 Marks)	
	b.	With a neat diagram, explain the session initiation protocol (SIP).	(08 Marks)	
	c.	Write a note on real-time media transport protocols.	(04 Marks)	
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8	a.	Briefly explain the classification of routing protocol.	(06 Marks)	
	b.	Explain the DEEP clustering algorithm.	(06 Marks)	

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Explain the intracluster and intercluster routing protocols.