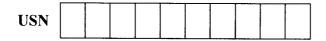
(08 Marks)



## 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

		rani – 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	el.
			(08 Marks)
	b.	Suppose that ATM cells arrive at a leaky bucket policer 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 i	dentify 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)
		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)
Ū	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)
8	a.	Briefly explain the classification of routing protocol.	(06 Marks)
	b.	Explain the DEEP clustering algorithm.	(06 Marks)

c. Explain the intracluster and intercluster routing protocols.