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

## USN

# Sixth Semester B.E. Degree Examination, December 2011 Computer Networks – II

Time: 3 hrs. Max. Marks:100

# Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

### PART - A

		PARI – A	
1	a. b. c.	Compare the datagram packet switching and virtual circuit packet switching.	(04 Marks) (06 Marks) (10 Marks)
2	a.	Differentiate between the leaky bucket and token bucket algorithms for congesti	
	b. c.	masks on dotted – decimal notation, and determine the number of hosts per subne for each subnet mask.	
			,
3	a.	Define funneling. Briefly explain the changes from IPv4 to IPv6.	(08 Marks)
	b. с.	Explain the three – way handshake for establishing a TCP connection.  Write a short note on routing information protocol.	(08 Marks) (04 Marks)
4	a.	Explain any five QoS parameters of ATM networks.	(10 Marks)
	b.	Briefly explain ATM addressing with ATM formets.	(05 Marks)
	c.	Write a note on classical IP over ATM.	(05 Marks)
		PART – B	
5_	а.	Define the network management. Explain the SNMP with SNMP messages.	(08 Marks)
	b.	Explain the routing table poisoning and denial – of – service attacks. For an RSA encryption of a 4 – bit message 1001 with a = 3 and b = 11, find the private keys.	(08 Marks) public and (04 Marks)
6	a.	With a neat diagram, explain the differentiated services QoS.	(08 Marks)
	b.	Explain the various types of resource allocation schemes.	(06 Marks)
	c.	Define VPN. Discuss the concept of tunneling and point – to – point protocol in V.	PN.
			(06 Marks)
7	a.	Briefly explain the MPEG standards and frame types for compression.	(06 Marks)
	b.	Explain the Huffman encoding, with an example.	(06 Marks)
	c.	With a neat diagram, explain the H.323 components and list the steps in signaling.	(08 Marks)
8	a.		(05 Marks)
	b.	Briefly explain the direct and multihop routing of intracluster routing protocol, with	th the help
			(06 Marks)
	c.	Write short notes on:	
		i) Clustering in sensor networks	
		ii) Security vulnerabilities of AD – Hoc networks.	(09 Marks)

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