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10CS64

Sixth Semester B.E. Degree Examination, June/July 2018 Computer Networks – II

Time: 3 hrs.

Max. Marks: 100

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			Note: Answer FIVE full questions, selecting	
			atleast TWO questions from each part.	
			000	
			PART - A	
				1
	1	a.	Define flooding. Briefly explain the techniques for reducing the duplicate	
			flooding. \triangle	(08 Marks)
		b.	Differentiate between connection oriented and connectionless service.	(04 Marks)
		C.	With an example explain Bellman-Ford algorithm for shortest path routing.	(08 Marks)
1	2	a.	Explain FIFO and priority queue scheduling for traffic management at packet leve	1.
				(08 Marks)
		b.	Define congestion control. Explain the different techniques for closed-loop	congestion
			control.	(07 Marks)
		c.	With a neat diagram explain the token bucket traffic shaper.	(05 Marks)(0)
				le se
3	3	26	With a neat diagram explain the TCP/IP protocol suite.	(06 Marks)
	^	199	A host in an organization has an IP address 150·32·64·34 and a subnet mask 255	, " (ALI) A.
(1/	0	How bits are used to specify the subnet ID? What is the address of this subnet?	What is the
S	1	T		208 Marks)
20	T		range of IP addresses that host can have on this subnet?	(06 Marks)
> /		c.	List the changes from IPv4 to IPv6.	(00 Marks)
	,			ent in TCP
4	4	a.	What a neat diagram, explain three-way handshaking for connection establishme	(08 Marks)
		h	With a message format explain routing information protocol.	(06 Marks)
		b.		(06 Marks)
		C.	Explain mobile IP routing operation with a neat diagram	(00 Marks)
			PART - B	
	=	0	Write necessary diagrams explain the different techniques for name/address r	manning in
	5	a.	write necessary diagrams explain the different techniques for name address i	(00 Monto)

- b. Write a short note on RSA algorithm.

 Write necessary diagrams explain the different teerinques for name/address mapping in (08 Marks)

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- 6 a. With a neat block diagram explain differentiated services approach for providing quality of service.

 (08 Marks)
 - b. List the benefits of creating VPNs Explain VPN types. (08 Marks)
- c. Write short note on MPLS packet format. (04 Marks)
- 7 a. Explain the MPEG standards and frame types for compression.

 b. With an example, explain Huffman encoding for data compression.

 c. With neat diagram explain SIP components.

 (06 Marks)

 (08 Marks)
- 8 a. Explain the classification of routing protocols in mobile Ad-hoc networks. (06 Marks)
 - b. List and beliefly explain the security vulnerabilities and security attacks on mobile Ad-hoc networks.

 (06 Marks)
 - c. With a heat block diagram explain the structure of sensor node in wireless sensor networks.

 (08 Marks)
