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B.E. (Computer Science & Engineering) Seventh Semester (C.B.S.)

Elective - I: TCP & IP

P. Pages: 2 NJR/KS/18/4628 Time: Three Hours Max. Marks: 80 Notes: 1. All questions carry marks as indicated. Solve Question 1 OR Questions No. 2. 2. Solve Question 3 OR Questions No. 4. 3. 4. Solve Question 5 OR Questions No. 6. 5. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. 6. 7. Solve Question 11 OR Questions No. 12. Due credit will be given to neatness and adequate dimensions. 8. Illustrate your answers whenever necessary with the help of neat sketches. 9. What is RFC? Draw & explain various maturity levels. a) Draw & explain TCP/IP protocol suite. OR 2. Explain different connecting devices & mention the OSI layer in which device works. 7 a) Differentiate between 802.3 and wireless lan 802.11 b) 3. An organization is grantal a block of addresses starting with 150.80.0.0/16 ISP wants to 10 a) distribute these blocks to 1000 customers are as follows. 1st group has 200 medium size business each needs 128 addresses. The 2nd group has 400 small business each needs 4 addresses. ii) The third group has 400 households each need 4 addresses. b) Classify the following IP address 208.34.10.32 ii) 112.12.12.13 15.54.16.10 iii) OR An organization is grantal a block of addresses with the beginning addresses 14.24.74.0/24 4. 13 the organization needs to have 3 sub blocks of addresses to use in its three subnets as follows One subblock of 120 addresses One subblock of 60 addresses ii) iii) One subblock of 10 addresses Design subnet & draw subnetwork diagram. Explain the IP header format in detail. a) List and explain the various packet forwarding techniques used by IP. b) OR

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6.	a)	An ICMP message has arrived with the header (in hexadecimal) 05 00 11 12 11 0B 03 02 7
		what is the type of the message?
7	· // .	What is the code?
	15	What is the purpose of messages?
		What is the value of Last 4 bytes?
		What do the last bytes signify.
	b)	Explain RIP routing protocol in detail. 6
	U)	Explain Kii Touting protocol in detail.
7.	a)	Explain the various services provided by TCP. 7
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	b)	Explain congestion control mechanism of TCP in detail.
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		OR
8.	a)	Draw and explain in detail the TCP header format.
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	(b)	Explain how flow control and error control is implemented by TCP.
9.		Explain about LDP hello message. 6
١٩.	a)	Explain about LDP hello message. 6
	b)	Explain the ECMP routing strategy in TE. 7
	0)	Explain the Berli Touting strategy in TB.
		OR
10.		Write a short note on any two.
		i) SBR
		ii) MPLS
		iii) Future development of T.E.
11.	۵)	Differentiate between IPv4 & IPv6.
11.	a)	Differentiate between IPv4 & IPv6.
	b)	Write a note on Auto configuration in IPv6.
		y hie a note on ratio configuration in it
		OR
12.		Write short note on any three.
		i) Transition from IPv4 to IPv6.
		ii) ID accomplise
		ii) IP security.
		iii) Compare ICMPv4 and ICMPv6.
		in, compare term vit and term vo.
		iv) RTP.





The best time to plant a tree was 20 years ago. The second best time is now.

~ Chinese Proverb

