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Internal Assessment Test 2 – April. 2018

Sub:	Computer Communication Networks				Sub Code:	15EC64	Branch	ECE
Date:	16/04/2018	Duration:	90 min's	Max Marks:	50	Sem / Sec:	VI C,D	

	Answer any one question from each part	MARKS	CO	RBT
	Part1			
1	Explain different persistence methods of CSMA.	[10]	CO1	L2
	OR			
	Explain CSMA/CA wireless protocol with neat flowchart and flow diagram.	[10]	CO1	L2
	Part2			
2	With a neat diagram explain IEEE 802.3 Ethernet frame format and also mention maximum and minimum frame size.	[10]	CO1	L2
	OR			
	Explain different implementation of standard Ethernet with neat diagrams.	[10]	CO1	L2
	Part3			
3	(a)Explain different notations of IPv4 address? Explain class full addressing scheme with prefix and suffix. (b) Find first, last and number of address in given block 14.12.72.8/24	[5+5]	CO1	L3
	OR			
	(a)An ISP is granted the block of addresses with the beginning address 14.24.74.0/24.The organization needs to have sub blocks to use in its three subnets: one subnet 0f 10,one subnet of 60,one subnet 0f 120 .Design sub lock and calculate remaining addresses. (b) Find the class from given IPv4 address. (i)130.10.10.3 (ii) 224.5.6.7	[8+2]	CO1	L1
	Part4			
4	(a)In a standard Ethernet with transmission rate 10Mbps we assume that length of the medium is 2500 m and the size of the frame 512 bits.the propogation speed of a signal in a cable normally 2×10^8 calculate efficiency of standard Ethernet. (b)Define the following type of address. (i)4B:45:23:67:89:34(ii) FF:45:23:67:89:34(iii)FF:FF:FF:FF:FF:FF ©Explain bridge Ethernet with neat diagrams.	[3+3+4]	CO1	L2
	OR			
	Explain common fast Ethernet implementation and also explain encoding scheme	[7]	CO1	L1
	Part5			
5	Explain Network Address Translation(NAT) with neat diagrams.	[10]	CO1	L2
	OR			
	(a)Explain different special IPv4 address with example. (b)Explain different frame forwarding techniques with neat diagrams.	[4+6]	CO1	L3