et 6 sem computer communication and telecom networks dec 2015

		(3 Hours) [Total Marks	:80
N.B. :		(1) Question No.1 is compulsory a2zSubjects.com	
		(2) Write any three question from Q. 2 to Q.6.	
		(3) Draw neat diagram if necessary.	
1.	So	lve following	20
		(a) Compare between pure ALOHA and Slotted ALOHA	
		(b) Explain working principle of selective repeat ARQ	
		(c) What is the use of subnetwork in IP addressing	
		(d) What is bit and byte stuffing explain with example.	
2.	(a)	Discuss various scheduling methods used in MAC	10
	(b)	Explain need of fragmentation and field related to fragmentation in IP datagram	10
3.	(a)	Solve the following related of IP datagram	
		(a) Which field shows number of hop count	10
		(b) If HLEN value is 5 and length of data is 24 bytes. Calculate option	
		(c) What are differentiate services?(d) Packet version of 010 is discarded. Justify.	
	(b)	Draw and explain connection establishment using 3 way handshaking in TCP.	
	(-)		10
4.	(a)	What is DSL and HFC? Describe in brief	U.S.
	(b)	What is IEEE 802.11? Explain features of IEEE 802.11. Draw the architecture	10
		of IEEE 802.11 a2zSubjects.com	10
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5.	(a)	What do you mean by decentralized peer to peer file sharing? How it is different from centralized system.	-
	(b)	What are the components of ATM? Explain in brief.	5
4	(c)	What is the role of ICMP protocol? Explain the error messages of ICMP	5
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6.	(a)	An ISP are granted a block of address starting with 127.60.4.0/20. The ISP	
		wants with each organization receiving 8 address only Design subblock and	10
		give the slash notation for each subblock.	
	(b)	Which protocol gives mapping of name with IP address? Explain working of	
		such protocol with different records.	10

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