## TE | Comp | I (Red) 28 15 12012 Computer Network.

Con. 4430-12.

GN-8240

	(3 Hours)		[ Total Marks: 100	
N.B.	:(1)Question No. 1 i (2)Solve any four q (3)Marks assigned	s compulsory. uestions out of the remaining. to the sub-questions as indicated.		
	1. a) With a neat diagram compare the uses and functions of different hardware components/devices used in an internetwork. (10)			
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		virtual circuits and datagram subnets crepresentation during congestion co		
	•	the advantages of a variable length fra		
	length frame	s. Explain the different framing metho	ods. (10)	
	b) Explain FD	DMA, TDMA and CDMA	(10)	
	3. a) Derive the	efficiency of Pure Aloha protocol	(10)	
	•	receiver receives the code <b>11001100111</b> . When it applies the ming code algorithm the result is <b>0101</b> . Which bit has the		
	error? What	is the correct Hamming code?	(10)	
	4. a) Describe th	ne IPv4 header format in detail.	(10)	
	b) Explain the three protocol scenarios for establishing a co			
	using a 3-way	handshake in TCP	(10)	
	5. a) Explain DV	R routing algorithm and mention the	drawbacks of the	
	algorithm wh	en put into practice	(10)	
	b) Explain the	e working of Transactional TCP	(10)	
	6. a) List the des	sign features to be taken care of as co	ngestion	
	prevention po	olicies in the different layers of netwo	rk (10)	
	•	ayered structures and compare the tv		
	reference mo	odels – OSI and TCP/IP	(10)	
	7. Write notes of	on: (any two)	(20)	
	a) SONET	<del>Š</del>		
	b) Ethernet fr	ame formats		
	c) ADSL			

d) Satellite Communication