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CS-68

BACHELOR OF COMPUTER APPLICATIONS (BCA) (Pre-Revised)

Term-End Examination

00703

June, 2015

CS-68: COMPUTER NETWORKS

Tin	ne : 2 .	hours Maximum Marks	Maximum Marks : 60	
Note: Question number 1 is compulsory. Attempt any three questions from the rest.				
1.	(a)	How is the data fragmented and again reassembled in TCP/IP?	5	
	(b)	Differentiate between Switches and Hubs.	5	
	(c)	Write the differences between datagram subnet and virtual circuit.	5	
	(d)	Explain selective repeat protocol with a suitable diagram.	5	
	(e)	Compare and contrast between simplex, half duplex, and full duplex communication, along with an example for each.	6	
	(f)	What is Congestion ? How is congestion controlled by TCP?	4	

2.	(a)	What is the function of a router? Discuss the working of open shortest path first routing.	5
	(b)	Explain the concept of leaky bucket and token bucket algorithms.	5
3.	(a)	Explain the functions of session layer and presentation layer of OSI model.	5
	(b)	What is the size of ATM cell header and packet? Discuss the functions performed by ATM adaptation layers.	5
4.	(a)	What is flow control? Discuss some flow control mechanisms.	4
	(b)	How is CSMA/CD protocol different from ethernet protocol? How does CSMA/CD resolve the problem of line contention?	6
5.	Writ	te short notes on the following: $4 \times 2\frac{1}{2} =$	10
	(a)	Gateways	
	(b)	Frame Relay	
	(c)	DNS	

(d)

ISDN