BACHELOR IN COMPUTER APPLICATIONS Term-End Examination June, 2012

CS-68 : COMPUTER NETWORKS

Time : 3 hours Note : Question one is contract the rest.		ours Maximum Marks	Maximum Marks : 75	
		uestion one is compulsory . Attempt any three from e rest.		
1.	(a)	Explain the characteristics of Baseband and Broadband coaxial cables.	5	
	(b)	What is the purpose of a DNS, when we can directly use an IP address? If a DNS domain name is AAA.BBB.Com, how many labels are involved here? What is the lowest level domain and what is the highest level domain in the above mentioned domain name?	5	
	(c)	Explain the process of connection establishment and multiplexing in the transport layer protocol.	5	
	(d)	Explain the functioning of 7 layers of OSI model. Write any three stengths of OSI model.	10	
	(e)	Explain the classes of service defined for ATM. Give an example for each service class.	5	

- (a) Explain different categories of network. 10 That is LAN, WAN and MAN. Also, explain a protocol associated with each of the LAN, WAN and MAN.
 - (b) Explain the function of a modem. What are 5 the modulation techniques used in modems?
- (a) Explain the function of transparent bridges. 10
 Also, write any three advantages and two disadvantages of transparent bridges.
 - (b) Why does congestion occur in data networks? 5
- (a) Define data rate and signal rate. An analog signal carries 4 bits per signal. If 1000 signal elements are sent per second, then what will be the bit rate.
 - (b) What are the two sliding windows protocols ? 7 How do they work ? Explain.
- (a) Define Virtual circuit and datagram. Also, 10 differentiate between virtual circuit subnet and datagram subnet.
 - (b) What are the two popular approaches to 5 packet switching? Explain any one of them.

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