BACHELOR IN COMPUTER APPLICATIONS

Term-End Examination

December, 2010

CS-69: TCP/IP PROGRAMMING

Time: 2	hours	Maximum Marks	: 60
Note:		number 1 is compulsory. Answer any s from the rest.	two
1. (a) Ansv (i)	wer the following questions in brief. Which address among the following changes from hop to hop! Explain. • Physical address	5
	(ii)	 Logical address Port address What is the first bit, the first two bits and the first three bits of class A, class B and class C addresses 	3
	(iii)	respectively? What is the purpose of classless addressing?	2
	(iv) (v)	Where the UDP protocol is used? Does UDP support sliding window mechanism?	2 1
	(vi)		2

(b)	windows for 3-bit sliding window of TCP at different stages of data transfer.	
(c)	(i) What are the tasks performed by TCP and IP when it receives a packet?	8
	(ii) When the datagram will be discarded from the system?	2
(a)	Differentiate between the followings:	9
	(i) Class A and Class C address	
	(ii) TCP and UDP	
	(iii) Connection oriented and connectionless services	
(b)	Discuss the name resolution process used in Internet.	6
(a)	Explain the purpose and importance of the following header fields of TCP and IP	0
	(i) Version	
	(ii) Type of service	
	(iii) Header checksum	
	(iv) Sequence number	
	(v) Protocol	
(b)	Explain the IP routing mechanism.	5
	(c) (a)	windows for 3-bit sliding window of TCP at different stages of data transfer. (c) (i) What are the tasks performed by TCP and IP when it receives a packet? (ii) When the datagram will be discarded from the system? (a) Differentiate between the followings: (i) Class A and Class C address (ii) TCP and UDP (iii) Connection oriented and connectionless services (b) Discuss the name resolution process used in Internet. (a) Explain the purpose and importance of the following header fields of TCP and IP (i) Version (ii) Type of service (iii) Header checksum (iv) Sequence number (v) Protocol

4.	(a)	Explain the following terms:	
	•	(i) Authentication and Authorization	ı
		(ii) Hierarchical naming scheme	
		(iii) Subnet mask	
		(iv) Congestion	
		(v) Fragmentation	
(b)	Briefly describe the UDP header format and		
		its fields.	