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Course Code : BCS-061
Course Title : TCP/IP Programming
Assignment Number : BCS-19 / BCS-061 / Assignment/2011
Maximum Marks : 25
Last Date of Submission : 30th April, 2011/09th October, 2011

This assignment is having seven questions. Answer all the questions.

Question 1: Draw the IP datagram header format. "IP datagram has a checksum field still its called unreliable protocol." Justify. (3 Marks)

Question 2: Write a client and server program in C language using UDP, where client program interact with the Server as given below:

- The client begins by sending a request to send a string of 8 characters or series of 7 numbers, the server sends back a characters or numbers as per the request of the client.
- In case of series of 7 numbers. The client sends a multiplication of numbers, to the server.
- In case of a string of 8 characters. The client sends a reverse order of string to the server.
- Server will send an acknowledgment to the client after receiving the correct answer.

(6 Marks)

Question 3: What is an "internetwork"? State and compare internetworking devices used to connect different LAN segments. (3Marks)

Question 4: Compare flow control and congestion control. Why a choke packet is used? (3 Marks)

Question 5: Why would an application use UDP instead of TCP? Also, explain how can TCP handle urgent data? (3 Marks)

Question 6: Why do LANs tend to use broadcast networks? Why not use networks consisting of multiplexers and switches. (3 Marks)

Question 7: Write short notes on following:

- ICMP
- IP Encapsulation
- Sockets
- SNMP

(4 Marks)

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