ITS 323 – Quiz 6 (ITb)

First name: _____   Last name: _____

ID: _____   Total Marks: _____

out of 10

Question 1 [4 marks]

Assume Classful Addressing is used.

   a) Computer A has IP address 129.64.32.8. What class is it?   _____

   b) Computer B has IP address 129.63.32.9. Are A and B on the same network?   YES / NO

   c) What IP address identifies the network of Computer A?   _____

   d) Is the computer with the following IP address on the same network as A?   YES / NO

         10000001 01000000 00000001 00000000

Question 2 [3 marks]

Assume Classless Addressing is used.

   a) What subnet mask should be used to create the same network size as that of Computer A
      in Question 1?

                              _____

   b) Computer C has IP address 72.45.8.16. What is the network address for this computer if
      the subnet mask is 255.255.128.0?

                              _____

   c) What is the broadcast address for computer C with subnet mask 255.255.128.0?

                              _____

Question 3 [3 marks]

Multiple choice (circle the correct answer):

a) Which protocol provides error reporting capabilities in the Internet:

    i. ICMP

    ii. ARP

    iii. IP

    iv. UDP

b) For a network with a maximum of 450 hosts, which subnet mask is most appropriate?

    i. /18

    ii. /23

    iii. /25

    iv. /9

c) For an IP datagram with destination address 150.102.l2.10/24 at a router with the following routing table, what next router will the datagram be sent to:

Destination Network	Next Router
150.102.7.*/24	A
150.102.*.*/24	B
150.*.7.10/24	C
*	D

    i. A

    ii. B

    iii. C

    iv. D