	ITS 323 – QUIZ 6 (ITA)
First name:	Last name:

ID:	 	 	

Question 1 [4 marks]

Assume Classful Addressing is used.

- a) Computer A has IP address 17.203.64.12. What class is it?
- b) Computer B has IP address 17.204.64.12. 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 00010001 11010011 01010000 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 64.33.8.3. What is the network address for this computer if the subnet mask is 255.255.192.0?
- c) What is the broadcast address for computer C with subnet mask 255.255.192.0?

Question 3 [3 marks]

Multiple choice (circle the correct answer):

- a) Which protocol maps IP addresses into physical address (like IEEE MAC addresses):
 - i. ICMP
 - ii. ARP
 - iii. DNS
 - iv. IP

b) For a network with a maximum of 1000 hosts, which subnet mask is most appropriate?

- i. /18
- ii. /22
- iii. /24
- iv. /10
- c) For an IP datagram with destination address 150.102.12.10/24 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	А		
150.*.7.10/24	В		
150.102.*.*/24	С		
*	D		

- i. A
- ii. B
- iii. C
- iv. D