SIIT ITS 323

ITS 323 – QUIZ 6 (CSA)

First n	ame: Last name:
ID:	Total Marks:
	out of 10
Questi	ion 1 [3 marks]
Assum	ne Classful Addressing is used.
a)	Computer A has IP address 129.64.32.8. What class is it?
b)	What IP address identifies the network of Computer A?
c)	Is the computer with the following IP address on the same network as A? YES / NO 10000001 01000000 00000001 000000000
Quest	ion 2 [3 marks]
Assum	ne 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 is the subnet mask is 255.255.128.0?
c)	What is the broadcast address for computer C with subnet mask 255.255.128.0?

SIIT ITS 323

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 1100 hosts, which subnet mask is most appropriate?

- i. /9
- ii. /23
- iii. /21
- iv. /11

c) The purpose of the Protocol Number field in the IP header is:

i. Indicate the next higher layer protocol that the data is intended for

- ii. Indicate the version of IP being used
- iii. Indicate the lower layer (data link) protocol that the data is intended for
- iv. Indicate the protocol options used by IP

d) 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	A
150.102.*.*/24	В
150.*.7.10/24	C
*	D

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