CSE	473	- Intro	duction	to	Computer	Netro	orks
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## Review Questions 6

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Please print out this form (two-sided, if you can) and write your answers *legibly* in the spaces provided. If you can't write legibly, type.

1. How long is the payload of an Ethernet frame carrying an IPv4 packet that contains a minimum size UDP packet. How long is the frame if the IPv4 packet is a TCP packet with 40 bytes of user data?

2. Consider a 100 Mb/s version of Ethernet using CSMA/CD. If the maximum separation between two nodes is 5 km, how efficient is the network if all packets have the minimum length? What if they have the maximum length?

3.	Suppose two hosts in an Ethernet network are assigned the same IP address. Discuss how this could affect the operation of ARP. Can you suggest how such a condition could be detected?

4.	How many distinct IP multicast addresses are there? How many distinct Ethernet multicast addresses are available for use with IP? Discuss how the difference in these two numbers might affect the operation of IP multicast, in the context of Ethernet LANs.						