NWEN 302 LAB 2 REPORT

Instructions: Use this editable form to answer the questions and other discussion points. Type your answers in the boxes provided, ensuring that your answers do not go beyond the boxes. Once completed, save the file as lab2-report.pdf and submit to the ECS Submission System.

Q1.5: What triggered the ARP query "Who has 10.0.0.20? Tell 10.0.0.21"?
Q1.6: Compare the delays encountered by the first ping and second ping. Explain why the delays are different.
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Q1.7: How many ARP requests are sent by the sender before it gives up?
Q1.8: Did you notice any difference in the packets captured at the two nodes? Explain your observation.
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Discussion 1.1: Unused and stale ARP cache entries are expunged from the cache. Discuss why this is necessary.
Discussion 1.2: Discuss what happens if a node with a different MAC address re-uses an IP address and the old ARP cache entry is not yet expunged.
address and the old Arti Caone entry is not yet expunged.

Objective 2: Implementing a Learning Switch

Q2.1: What are the entries of the table? Provide a brief explanation of the columns.
O2 21 What did you nation about the neckets contured at the 2 interfaces of n42 Explain
Q2.2: What did you notice about the packets captures at the 3 interfaces of n4? Explain.
Q2.3: What did you notice about the packets captured at the 3 interfaces of n4? Explain.
Q2.4: What are the new entries in the table?
Discussion 2.1: Unused and stale entries are expunged from the switch table. Discuss why this is
necessary.
Discussion 2.2: Discuss the trade-offs of switch table age/expiration time (i.e. pros and cons of
long vs short expiration time).