

Name: _____ **Date:** _____
Northampton Community College
CISC 231 – Data Communications and LANs (CCNA 1)
STUDY GUIDE FOR CHAPTER 7

1. Define the function of the data link layer.
2. Which three factors should be considered when implementing a Layer 2 protocol in a network? (Choose three.)
3. What is a MAC address? What are some of its other names.
4. Explain media access control.
5. What is meant by the term “contention-based” media? Give a few examples.
6. Explain the difference between a logical topology and a physical topology.
7. Define Token passing. How is this different from Ethernet?
8. Draw and label a generic ethernet frame.
9. Explain CSMA/CD

10. What are the two sub-layers of the data link layer? Define each!

11. What configuration changes need to be made when moving a computer from one subnet to another?

12. Define the process of framing? Why is it important?

13. Describe the fields in a frame header?

14. What is the frame trailer used for?