

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
**Northampton Community College**  
**CISC 231 – Data Communications and LANs (CCNA 1)**  
**STUDY GUIDE FOR CHAPTER 9**

1. Convert the binary number 10111010 into its hexadecimal equivalent.
2. Define interframe spacing.
3. What is CSMA/CD?
4. Describe, in detail, what happens when a collision occurs on a network.
5. What is the difference between a deterministic and non-deterministic network topology?
6. How many collision domains are there if we are using 13 interfaces on a 24 port switch?
7. What layer of the OSI model does Ethernet operate at? Of the TCP/IP model?
8. Describe IEEE 802.2.
9. What is a MAC address? How many bits are there in a MAC address? What are the two parts of this address?

10. What are the common media types used in today's network installations?

11. What is a frame trailer?

12. Describe ARP.