

Name: _____ **Date:** _____
Northampton Community College
CISC 231 – Data Communications and LANs (CCNA 1)
STUDY GUIDE FOR CHAPTER 2

1. What is the purpose of a network protocol?
2. Define the role of an intermediary device in the network.
3. Define the role of an end device in the network.
4. What is encapsulation?
5. What are the seven layers of the OSI model (in order)? What is the role of each layer?
6. Compare the OSI model to the TCP/IP model.
7. What is the frame trailer for at layer 2?

8. What is a PDU?
9. Describe a LAN.
10. What is the difference between a LAN and a WAN?
11. What is multiplexing?
12. How are port numbers used in the Transport layer PDU?
13. Which layer encapsulates the segment into packets?
14. What is the Layer 4 PDU called?
15. What is the Layer 3 PDU called?
16. What is the Layer 2 PDU called?
17. At what layer do bridges and switches function?
18. What is the difference between a bridge and a switch?
19. What do bridges and switches use to make switching decisions?
20. At what layer do routers function?
21. What is a router?
22. What do we mean when we talk about the “Internet Cloud”?
23. What is a transceiver and what does it do?