

**LANSING EASTERN HIGH SCHOOL CNAP
SEMESTER IV FINAL REVIEW SHEET**

Directions: Before attempting the Semester One Final Exam you should be familiar with the following concepts.

- When should you increase bandwidth? Why?
- RIP, IGRP, OSPF - are you familiar with all of these?
- Link State Protocols vs. Distance Vector
- How do you start to design a network? (First step or steps)
- Define implicit deny all statement
- Cisco 3 Layer Model. What are the layers? What devices are found on each layer?
- Where should access lists be placed? Is it the same for standard and extended?
- Map a WAN to the OSI layers it is concerned with.
- Define Demarcation
- DTE / DCE - What devices are found where?
- ISDN - channels, signaling protocols, speeds, configuration, PRI, BRI & their speed.
- Frame Relay X. 25
- Define PVCs - What are they used for?
- Fiber Optic Modes
- HDLC Encapsulation Methods
- Benefits of a Hierarchical over Linear Network Design
- Which type of network traffic is most important in a business network?
- Core / Access / Distribution layers, placement of devices
- Logical Link Control
- PPP establishment procedure
- PAP, CHAP - Know how to implement and the differences between them.
- Define SPIDs - What are they used for?
- Define DLCIs - What are they used for?
- CIR - Can you ever exceed it?
- ARP, RARP, IARP - Know the functions of each.
- When are subinterfaces necessary?
- Know about Frame Relay Point to Point and MultiPoint connections.
- Simple Network Management Protocol
- Remote Network Monitoring
- Know how to use these commands and be familiar with what type of information they give you.
 - winipconfig, netstat, ping, traceroute, telnet, winipcfg, arp-a.