Networking Everyone

Name: _____ Date: _____

Network Topologies

Note: Diagrams should be easy to read. They should contain wire numbers and information for the network technician to install the computer on the network.

1. Create a star topology diagram of a LAN with 16 PCs, one switch and one router. The IP addresses for the LAN are 192.170.10.1 for the router and 192.170.10.2 through 192.170.10.17 for the computers. Computers will be named ACC1 through ACC16. The subnet mask is 255.255.255.0.The router connects to the ISP. The diagram will fir on one 8.5 by 11 piece of paper. The diagram will contain the name of the project, the name of the drawer and the date drawn in the lower right hand corner of the diagram. The project name is A C Computers.

2. Create a mesh topology diagram of a LAN with 10 PCs, one switch and one wireless and wired router. The IP addresses for the LAN are 198.200.100.1 for the router and 198.200.100.2 through 198.200.100.11 for the wired NIC and 198.200.100.102 through 198.200.100.111 for the wireless NIC on the computers. Computers will be named BDD1 through BDD10. The subnet mask is 255.255.255.0.The router connects to the ISP. The diagram will contain the name of the project, the name of the drawer and the date drawn in the lower right hand corner of the diagram. The project name is Builders and Developers Department.

3. Create a ring topology diagram of a LAN with 8 PCs and fiber optic router. The IP addresses for the LAN are 201.90.50.1 for the router and 201.90.50.2 through 201.90.50.9 for the wired NICs on the computers. Computers will be named WST1 through WST8. The subnet mask is 255.255.255.0.The router connects to the ISP. The diagram will fir on one 8.5 by 11 piece of paper. There are 8 Fiber Optic Transceivers linking the computers to the Fiber Optic ring. The diagram will contain the name of the project, the name of the drawer and the date drawn in the lower right hand corner of the diagram. The project name is West Station Township

4. Create a bus diagram showing 10 computers connected together on their own Intranet. The IP addresses for the LAN are 192.168.50.1 through 192.168.50.10 for the NICs on the computers. Computers will be named GF1 through GF10. The subnet mask is 255.255.255.0. The diagram will fir on one 8.5 by 11 piece of paper. The diagram will contain the name of the project, the name of the drawer and the date drawn in the lower right hand corner of the diagram. The project name is Grant Firehouse