**Network+ Quiz - solutions**

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| **Chapter 1-a Question** | **Answer** |
| 1. This command is used to verify connectivity between two network devices. | **ping** |
| 2. This is an example of which of the following topologies? | **Star topology** |
| 3. This is an example of which of the following topologies? | **Bus topoplogy** |
| 4. This is an example of which of the following topologies? | **Ring topology** |
| 5. This is an example of which of the following topologies? | **Mesh topology** |
| 6. This OSI layer is used for support for application. | **Application** |
| 7. This OSI layer ensures error-free packets. | **Transport** |
| 8. This OSI layer provides routing decisions. | **Network** |
| 9. This OSI layer provides for the flow of data. | **Data-link** |
| 10. This OSI layer includes signals and media. | **Physical** |
| 11. This OSI layer handles protocol conversion and data transmission. | **Presentation** |
| 12. This OSI layer establishes, manages and terminates sessions. | **Session** |
| 13. Which of the following defines the Ethernet protocol? | **CSMA/CD** |
| 14. Which of the following is a private IPv4 address? | **192.168.12.5** |
| 15. Which of the following is a public IPv4 address? | **72.16.126.43** |

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| **Chapter 1-b Question** | **Answer** |
| 1. Which of the following is the command to view the IP address on a PC? | **ipconfig** |
| 2. Which of the following is the command to view the IP address on a Linux machine? | **ifconfig** |
| 3. Which of the following is the command to view the IP address and MAC address on a PC? | **ipconfig/all** |
| 4. This is the process where the port number identifies the computer that established the Internet connection, and enables delivery of the data packet to the correct computer. | **pat** |
| 5. This is the acronym for the process of translating the private IP address to a public address for routing over the Internet. | **nat** |
| 6. This term describes the process where packets from one IP address/port number are redirected to another. This is often used to make services on one part of a network available to hosts on the opposite side. | **Port Forwarding** |
| 7. This is a term for describing a UTP cable carrying 1000Mbps (1 gigabit) or more of data up to a length of 100 meters | **speed and distance requirement** |
| 8. This can be used to select what devices can be allowed access to the network. When MAC address filtering is turned on, only wireless devices that have allowed MAC addresses will be granted access to the network. | **MAC filtering** |
| 9. This is a Web page that the user of a public-access network is obliged to view and interact with before access is granted. These are typically used in WiFI hotspots typically used by business centers, airports, hotel lobbies, coffee shops, libraries, schools and other venues that offer free Wi-Fi hot spots for Internet users. | **captive portal** |
| 10. This acronym stands for 100 Megahertz, baseband over twisted pair. | **100BaseT** |
| 11. This acronym stands for 1000 Megahertz, baseband over twisted pair. | **1000BaseT** |
| 12. TTL stands for | **Time to live** |
| 13. This is used to used to make a broadband network (also called cable broadband) connection from your home network to the ISP using your cable connection. | **cable modem** |
| 14. This device is typically used to make the data connection to the ISP. | **modem** |
| 15. WPS simplifies the configuration process, enabling the user to set up WPA PSK without having to enter a long string of symbols, random numbers, or letters. This provides a feature to protect wireless networks, but it is still susceptible to what kind of attack? | **brute force** |

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| **Chapter 1-c Question** | **Answer** |
| 1. A wireless router typically contains a router, switch, and | wireless access point |
| 2. 802.11a operates at what frequency? | 5 GHz |
| 3. The DSL connection requires the placement of filters on all telephone lines except the one going into the modem to prevent which of the following? | interference |
| 4. This device relays the wireless signals from an access point or wireless router into areas with a weak signal or no signal at all. | wireless range extender |
| 5. Which of the following is the standard operating frequency for 802.11b | 2.4 Ghz |
| 6. Which of the following is a standard for fiber optics operating at 1 Ghz? | 1000BaseSX |
| 7. Which of the following is the name for the 8-pin modular connector used with CAT6/5e/5 cable? | RJ-45 |
| 8. Which of the following is a type of media used for transporting data in a modern computer network? Select the best answer. | fiber |