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Objective: Explain the function of common networking protocols.

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The frequency of the 802.11b and 802.11g is which of the following?

a) 2.4GHz  
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c) 5GHz  
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Question 9.  
  
Objective: Identify common TCP and UDP default ports.  
  
Which of the following uses port 22 by default?

a) TELNET  
b) SSH  
c) FTP  
d) DNS

Question 10.  
  
Objective: Given a scenario, troubleshoot common wireless problems.  
  
A user is unable to connect to a network with encryption. The user is able to see the network and has the correct passphrase. Which of the following is MOST likely the problem?

a) Encryption type  
b) SSID mismatch  
c) Standard mismatch  
d) Signal strength

Question 11.  
  
Objective: Given a scenario, troubleshoot common physical connectivity problems.  
  
A technician is troubleshooting a UTP cable that has been suspected of having problems due to EMI. Which of the following cables should the technician use without adding new equipment to the network?

a) Singlemode fiber  
b) STP  
c) Plenum  
d) Multimode fiber

Question 12.  
  
Objective: Describe different network topologies.  
  
Which of the following network topologies describes a network where packets of data are transmitted from one computer to another in a circular fashion?

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b) Mesh  
c) Bus  
d) Star

Question 13.  
  
Objective: Given a scenario, troubleshoot common physical connectivity problems.  
  
Which of the following defines the length of time a device retains its IP address for?

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b) Reservation  
c) Subnet  
d) Lease

Question 14.  
  
Objective: Identify virtual network components.  
  
Which of the following virtual devices is the BEST to use to host a company's website?

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b) Server  
c) Switch  
d) Desktop

Question 15.  
  
Objective: Categorize standard media types and associated properties.  
  
A cable standard that includes a fire-retardant jacket is:

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b) fiber cable  
c) plenum cable  
d) UTP cable

Question 16.  
  
Objective: Given a scenario use appropriate hardware tools to troubleshoot connectivity issues .  
  
A new drop is active according to the network administrator. A technician takes a laptop to the new drop to test connectivity and gets an intermittent signal. Which of the following tools could the technician use to test the line?

a) Environmental monitor  
b) Toner probe  
c) Protocol analyzer  
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Question 17.  
  
Objective: Given a scenario, implement appropriate wireless security measures.  
  
An administrator works for a law firm in an office building in a major city. After installing a new wireless access point, the administrator secures the device using WPA and then connects to it using a laptop. Which of the following would be the logical NEXT step in securing the device?

a) Add a second SSID broadcast to the access point and name it the same as a neighboring company  
b) Change the wireless encryption type to WEP  
c) Remove the antennas  
d) Check neighboring offices for connectivity and reduce the signal strength appropriately

Question 18.  
  
Objective: Given a scenario and a set of requirements, plan and implement a basic SOHO network.  
  
An administrator is asked to set up a home office for a user who would like to connect to the Internet and share files with all six computers in the home. Which of the following are the MINIMUM requirements if the user refuses to install wireless devices and all computers contain working network cards?

a) Hub, Cables, Firewall  
b) Firewall, Router, Cables  
c) Switch, Firewall, Cables  
d) Router, Switch, Cables

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Objective: Given a scenario use appropriate software tools to troubleshoot connectivity issues.  
  
The command netstat –n will display which of the following?

a) Ethernet statistics  
b) IP address  
c) Address and port numbers in numerical form  
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Objective: Identify components of wiring distribution.  
  
A business has expanded to additional floors in the building. The expansion only calls for switches and patch panels to be installed. Which of the following would the network manager need to locate?

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Question 21.  
  
Objective: Given a scenario, install and configure a wireless network.  
  
A network administrator needs to implement a new wireless network for a coffee shop. The shop wants to allow users wireless access from anywhere in the shop, but not outside. Which of the following should be the GREATEST concern for the administrator?

a) Channel  
b) Compatibility  
c) WAP placement  
d) Interference

Question 22.  
  
Objective: Given a scenario, troubleshoot common router and switch problems.  
  
A user receives an information message on their computer stating a duplicate address exists. A technician would discover that which of the following is true?

a) Wrong gateway  
b) Evil twin  
c) IP address conflict  
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Question 23.  
  
Objective: Compare the layers of the OSI and TCP/IP models.

Which of the following layers is the presentation layer?

a) Layer 3  
b) Layer 5  
c) Layer 6  
d) Layer 7

Question 24.  
  
Objective: Explain the purpose and properties of routing and switching.

When differentiating hubs from switches, which of the following is FALSE?

a) Hubs have multiple collision domains.  
b) Switches have multiple collision domains.  
c) Switches have a single broadcast domain.  
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Question 25.  
  
Objective: Categorize standard connector types based on network media.  
  
Which of the following connector types are MOST commonly associated with phone jacks?

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b) ST  
c) RJ-45  
d) SC

Question 26.  
  
Objective: Compare and contrast different wireless standards.  
  
Which of the following 802.11 channels operates above 5GHz?

a) a  
b) b  
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Question 27.  
  
Objective: Compare and contrast different LAN technologies.  
  
Which of the following allows the LONGEST distance using single-mode fiber?

a) 10GBaseSR  
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Objective: Given a scenario, install and configure routers and switches.  
  
A switch can separate different subnets by configuring:

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Question 29.  
  
Objective: Classify how applications, devices, and protocols relate to the OSI model layers.  
  
At which of the following layers does the HTTP protocol operate?

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b) Layer 4  
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Question 30.  
  
Objective: Categorize WAN technology types and properties.  
  
Which of the following WAN technology types provides the FASTEST speeds?

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b) SDSL  
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