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**QUESTION 1**

An on-call network technician receives an automated email alert stating that a power supply on a firewall has just powered down. Which of the following protocols would BEST allow for this level of detailed device monitoring?

- A. TFTP
- B. TLS
- C. SSL
- D. SNMP

Correct Answer: D

QUESTION 2

AGRE tunnel has been configured between two remote sites. Which of the following features, when configured, ensures the GRE overhead does not affect payload?

- A. jumbo frames
- B. Auto medium-dependent Interface
- C. Interface crossover
- D. Collision detection

Correct Answer: A

One of the features that can be configured to ensure that GRE overhead does not affect payload is A. jumbo frames. Jumbo frames are Ethernet frames that have a payload size larger than 1500 bytes, which is the standard maximum transmission unit (MTU) for Ethernet. By using jumbo frames, more data can be sent in each packet, reducing the overhead ratio and improving efficiency. Auto medium-dependent interface (MDI), interface crossover, and collision detection are features related to Ethernet physical layer connectivity, but they do not affect GRE overhead or payload.

QUESTION 3

A network team is getting reports that air conditioning is out in an IDF. The team would like to determine whether additional network issues are occurring. Which of the following should the network team do?

- A. Confirm that memory usage on the network devices in the IDF is normal.
- B. Access network baseline data for references to an air conditioning issue.
- C. Verify severity levels on the corporate syslog server.
- D. Check for SNMP traps from a network device in the IDF.
- E. Review interface statistics looking for cyclic redundancy errors.



Correct Answer: D

"Baselines play an integral part in network documentation because they let you monitor the network's overall performance. In simple terms, a baseline is a measure of performance that indicates how hard the network is working and where network resources are spent. The purpose of a baseline is to provide a basis of comparison. For example, you can compare the network's performance results taken in March to results taken in June, or from one year to the next. More commonly, you would compare the baseline information at a time when the network is having a problem to information recorded when the network was operating with greater efficiency. Such comparisons help you determine whether there has been a problem with the network, how significant that problem is, and even where the problem lies."

QUESTION 4

A network technician travels to a remote office to set up a new SOHO for the company. Wireless networking should be used at the remote office. The network technician sets up all the related wireless network equipment, and the last step is to connect the users' devices to the company network. To complete this step, which of the following should be used to secure the remote network location?

- A. Host-based firewalls
- B. WPA2/WPA
- C. Open access
- D. Port filtering

Correct Answer: B

QUESTION 5

A security engineer is trying to determine whether an internal server was accessed by hosts on the internet. The internal server was shut down during the investigation.

Which of the following will the engineer review to determine whether the internal server had an unauthorized access attempt?

- A. The ARP table
- B. The NetFlow statistics
- C. The firewall logs
- D. The audit logs on the core switch

Correct Answer: C

Although all these could be used in a situation like this, the key term was "from the internet," the only thing that watches/disseminates/monitors/ etc. your network from the internet is a firewall.

QUESTION 6

An engineer is configuring redundant network links between switches. Which of the following should the engineer



enable to prevent network stability issues?

- A. 802.1Q
- B. STP
- C. Flow control
- D. CSMA/CD

Correct Answer: B

STP (Spanning Tree Protocol) A switching protocol that prevents network loops by dynamically disabling links as needed.

QUESTION 7

The network engineer receives a new router to use for WAN connectivity. Which of the following best describes the layer the network engineer should connect the new router to?

- A. Core
- B. Leaf
- C. Distribution
- D. Access

Correct Answer: C

The distribution layer is the layer that connects the access layer to the core layer in a hierarchical network design. The distribution layer is responsible for routing, filtering, and policy enforcement between the LAN and the WAN. A router is a layer 3 device that can perform these functions and connect to different WAN technologies.

QUESTION 8

A network technician is observing the behavior of an unmanaged switch when a new device is added to the network and transmits data. Which of the following BEST describes how the switch processes this information?

- A. The data is flooded out of every port, including the one on which it came in.
- B. The data is flooded out of every port but only in the VLAN where it is located.
- C. The data is flooded out of every port, except the one on which it came in
- D. The data is flooded out of every port, excluding the VLAN where it is located

Correct Answer: C

The switch processes the data by flooding it out of every port, except the one on which it came in. Flooding is a process where a switch sends a data frame to all ports except the source port when it does not have an entry for the destination MAC address in its MAC address table. Flooding allows the switch to learn the MAC addresses of the devices connected to its ports and update its MAC address table accordingly. Flooding also ensures that the data frame reaches



its intended destination, even if the switch does not know its location.

References: <https://www.cisco.com/c/en/us/support/docs/lan-switching/spanning-tree-protocol/10556-16.html>

QUESTION 9

Which of the following layers of the OSI model lies between the transport layer and the network layer?

- A. Application
- B. Data link
- C. Session
- D. Presentation

Correct Answer: D

QUESTION 10

A network engineer is designing a wireless network that has the following requirements:

1.
Network speed must be higher than 100Mbps
2.
Must use the 2.4GHz and 5GHz bands

Which of the following 802.11 standards should the engineer select?

- A. 802.11a
- B. 802.11b
- C. 802.11g
- D. 802.11n

Correct Answer: D

802.11n is a wireless standard that supports up to 600 Mbps data rate and operates in both the 2.4 GHz and 5 GHz frequency bands. 802.11n uses multiple-input multiple-output (MIMO) technology to increase the number of spatial streams and improve the wireless performance and range. 802.11n meets the requirements of the wireless network design. References: Network+ Study Guide Objective 1.6: Explain the functions of network services.

QUESTION 11

An administrator is preparing an organization for a potential disaster. The administrator configures the network switches and turns off the equipment in a data center. Which of the following is this scenario an example of?



- A. Warm site
- B. Cold site
- C. Cloud site
- D. Hot site

Correct Answer: A

QUESTION 12

A technician has started a major network project to upgrade to a higher throughput standard. The technician will need to install new patch panels and breakout boxes to support this infrastructure. Which of the following layers of the OSI model is the technician addressing at this stage of the upgrade?

- A. Physical
- B. Transport
- C. Network
- D. Data link

Correct Answer: A

QUESTION 13

A network administrator implements a group of access points, only changing the SSID, credentials, and IP address. Shortly after, users begin reporting poor quality and video loss while on video calls in the conference room. Which of the following should the administrator do to MOST effectively troubleshoot during business hours?

- A. Remove the current antennas and replace them with directional antennas on each AP.
- B. Disconnect the AP and move it closer to the conference room.
- C. Configure separate channels on APs that are not supporting the conference room.
- D. Reboot the switch and each AP at the same time.

Correct Answer: C

QUESTION 14

A Fortune 500 firm is deciding on the kind of data center equipment to install given its five-year budget outlook. The Chief Information Officer is comparing equipment based on the life expectancy of different models. Which of the following concepts BEST represents this metric?

- A. MTBF
- B. MTRR



C. RPO

D. RTO

Correct Answer: A

QUESTION 15

A network technician is utilizing DHCP. The technician has set a six-day lease time for all hosts. After which of the following time intervals should the hosts attempt to FIRST renew their address?

A. Two days

B. Three days

C. Six days

D. Seven days

Correct Answer: B

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