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N10-007

CompTIA Network+ Certification Exam

Exam A

QUESTION 1

According to the OSI model, at which of the following layers is data encapsulated into a packet?

- A. Layer 2
- B. Layer 3
- C. Layer 4
- D. Layer 5
- E. Layer 6

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

Which of the following WAN technologies is MOST preferred when developing a VoIP system with 23 concurrent channels?

- A. DSL
- B. POTS
- C. T1
- D. DOCSIS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

A junior network technician is setting up a new email server on the company network. Which of the following default ports should the technician ensure is open on the firewall so the new email server can relay email?

- A. 23
- B. 25
- C. 110
- D. 143

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

Which of the following policies would Joe, a user, have to agree to when he brings in his personal tablet to connect to the company's guest wireless Internet?

- A. NDA
- B. IRP

- C. BYOD
- D. SLA

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

In a service provider network, a company has an existing IP address scheme. Company A's network currently uses the following scheme:

```
Subnet 1: 192.168.1.0/26
Subnet 2: 192.168.1.65/26
```

Company b uses the following scheme:

```
Subnet 1: 192.168.1.50/28
```

The network administrator cannot force the customer to update its IP scheme. Considering this, which of the following is the BEST way for the company to connect these networks?

- A. DMZ
- B. PAT
- C. NAT
- D. VLAN

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

A network engineer is designing a new network for a remote site. The remote site consists of ten desktop computers, ten VoIP phones, and two network printers. In addition, two of the desktop computers at the remote site will be used by managers who should be on a separate network from the other eight computers. Which of the following represents the BEST configuration for the remote site?

- A. One router connected to one 24-port switch configured with three VLANs: one for the manager's computers and printer, one for the other computers and printer, and one for the VoIP phones
- B. Two routers with each router connected to a 12-port switch, with a firewall connected to the switch connected to the manager's desktop computers, VoIP phones, and printer
- C. One router connected to one 12-port switch configured for the manager's computers, phones, and printer, and one 12-port switch configured for the other computers, VoIP phones, and printer
- D. One router connected to one 24-port switch configured with two VLANs: one for the manager's computers, VoIP phones, and printer, and one for the other computers, VoIP phones, and printer

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

A network technician is troubleshooting an end-user connectivity problem. The network technician goes to the appropriate IDF but is unable to identify the appropriate cable due to poor labeling. Which of the following should the network technician use to help identify the appropriate cable?

- A. Tone generator
- B. Multimeter
- C. OTDR
- D. Loopback adapter

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

A network technician notices the site-to-site VPN and Internet connection have not come back up at a branch office after a recent power outage. Which of the following is an out-of-band method the technician would MOST likely utilize to check the branch office's router status?

- A. Use a modem to console into the router
- B. Walk a user through troubleshooting the connection
- C. Travel to the branch office
- D. Hire a contractor to go on-site

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

A network technician is considering opening ports on the firewall for an upcoming VoIP PBX implementation. Which of the following protocols is the technician MOST likely to consider? (Choose three.)

- A. SIP
- B. NTP
- C. H.323
- D. SMB
- E. ICMP
- F. RTP
- G. IPSec
- H. RDP

Correct Answer: ACF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

A device operating at Layer 3 of the OSI model uses which of the following protocols to determine the path to a

different network?

- A. STP
- B. RTP
- C. RIP
- D. NTP
- E. SIP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

A network administrator is setting up a web-based application that needs to be continually accessible to the end users. Which of the following concepts would BEST ensure this requirement?

- A. High availability
- B. Snapshots
- C. NIC teaming
- D. Cold site

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

Which of the following devices should a network administrator configure on the outermost part of the network?

- A. Media converter
- B. Switch
- C. Modem
- D. Firewall

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

A company finds that many desktops are being reported as missing or lost. Which of the following would BEST assist in recovering these devices?

- A. Asset tracking tags
- B. Motion detectors
- C. Security guards
- D. Computer locks

Correct Answer: D

Section: (none)
Explanation

Explanation/Reference:

QUESTION 14

A technician is connecting a router directly to a PC using the G1/0/1 interface. Without the use of auto-sensing ports, which of the following cables should be used?

- A. Straight-through
- B. Console
- C. Rollover
- D. Crossover

Correct Answer: D

Section: (none)
Explanation

Explanation/Reference:

QUESTION 15

A technician is diagnosing an issue with a new T1 connection. The router is configured, the cable is connected, but the T1 is down. To verify the configuration of the router, which of the following tools should the technician use?

- A. Loopback adapter
- B. Cable tester
- C. Tone generator
- D. Multimeter

Correct Answer: A

Section: (none)
Explanation

Explanation/Reference:

QUESTION 16

A network technician receives a call from a user who is experiencing network connectivity issues. The network technician questions the user and learns the user brought in a personal wired router to use multiple computers and connect to the network. Which of the following has the user MOST likely introduced to the network?

- A. Rogue DHCP server
- B. Evil twin
- C. VLAN mismatch
- D. Honeypot

Correct Answer: A

Section: (none)
Explanation

Explanation/Reference:

QUESTION 17

A technician is setting up a direct connection between two older PCs so they can communicate but not be on the corporate network. The technician does not have access to a spare switch but does have spare Cat 6 cables, RJ-45 plugs, and a crimping tool. The technician cuts off one end of the cable. Which of the following should the technician do to make a crossover cable before crimping the new plug?

- A. Reverse the wires leading to pins 1 and 2
- B. Reverse the wires leading to pins 1 and 3
- C. Reverse the wires leading to pins 2 and 3
- D. Reverse the wires leading to pins 2 and 4

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

Which of the following is the number of broadcast domain that are created when using an unmanaged 12-port switch?

- A. 0
- B. 1
- C. 2
- D. 6
- E. 12

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

A network engineer wants to segment the network into multiple broadcast domains. Which of the following devices would allow for communication between the segments?

- A. Layer 2 switch
- B. Layer 3 switch
- C. Bridge
- D. Load balancer

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

The Chief Information Officer (CIO) has noticed the corporate wireless signal is available in the parking lot. Management requests that the wireless network be changed so it is no longer accessible in public areas, without affecting the availability inside the building. Which of the following should be changed on the network?

- A. Power levels

- B. Overcapacity
- C. Distance limitations
- D. Channel overlap

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

A network technician is assisting the security team with some traffic captures. The security team wants to capture all traffic on a single subnet between the router and the core switch. To do so, the team must ensure there is only a single collision and broadcast domain between the router and the switch from which they will collect traffic. Which of the following should the technician install to BEST meet the goal?

- A. Bridge
- B. Crossover cable
- C. Hub
- D. Media converter

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

Based on networks 10.8.16.0/22 and 10.8.31.0/21, which of the following is the BEST summarized CIDR notation?

- A. 10.8.0.0/16
- B. 10.8.0.0/19
- C. 10.8.0.0/20
- D. 10.0.0.0/24

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

A technician logs onto a system using Telnet because SSH is unavailable. SSH is enabled on the target device, and access is allowed from all subnets. The technician discovers a critical step was missed. Which of the following would allow SSH to function properly?

- A. Perform file hashing
- B. Generate new keys
- C. Update firmware
- D. Change default credentials

Correct Answer: B

Section: (none)
Explanation

Explanation/Reference:

QUESTION 24

A network administrator wants to ensure sensitive data is not exfiltrated from the system electronically. Which of the following should be implemented?

- A. DLP
- B. AUP
- C. NDA
- D. SLA

Correct Answer: A

Section: (none)
Explanation

Explanation/Reference:

QUESTION 25

An office network consists of one two-port router connected to a 12-port switch. A four-port hub is also connected to the switch. On this particular network, which of the following is the number of collision domain that exist?

- A. 3
- B. 12
- C. 13
- D. 14
- E. 15

Correct Answer: D

Section: (none)
Explanation

Explanation/Reference:

QUESTION 26

A network technician wants to remotely and securely access the desktop of a Linux workstation. The desktop is running remote control software without encryption. Which of the following should the technician use to secure the connection?

- A. SSH in tunnel mode
- B. RDP set to console connection
- C. EAP-PEAP
- D. SFTP

Correct Answer: A

Section: (none)
Explanation

Explanation/Reference:

QUESTION 27

Which of the following should current network performance be compared against to determine network anomalies?

- A. Baseline
- B. Traffic analysis
- C. Packet capture
- D. Logs

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

A network administrator configures an email server to use secure protocols. When the upgrade is completed, which of the following ports on the firewall should be configured to allow for connectivity? (Choose three.)

- A. TCP 25
- B. TCP 110
- C. TCP 143
- D. TCP 389
- E. TCP 587
- F. TCP 993
- G. TCP 995

Correct Answer: EFG

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

After a server outage, a technician discovers that a physically damaged fiber cable appears to be the problem. After replacing the cable, the server will still not connect to the network. Upon inspecting the cable at the server end, the technician discovers light can be seen through one of the two fiber strands. Which of the following should the technician do FIRST to reconnect the server to the network?

- A. Reverse the fiber strands of the cable and reconnect them to the server
- B. Use a TDR to test both strands of a new replacement cable prior to connecting it to the server
- C. Replace the server's single-mode fiber cable with multimode fiber
- D. Move the fiber cable to different port on the switch where both strands function

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

The backups server connects to a NAS device using block-level storage over Ethernet. The performance is