

**QUESTION 94**

A network is experiencing a number of CRC errors during normal network communication. At which of the following layers of the OSI model will the administrator MOST likely start to troubleshoot?

- A. Layer 1
- B. Layer 2
- C. Layer 3
- D. Layer 4
- E. Layer 5
- F. Layer 6
- G. Layer 7

**Correct Answer: B**

**QUESTION 95**

A technician is installing a cable modem in a SOHO. Which of the following cable types will the technician MOST likely use to connect a modem to the ISP?

- A. Coaxial
- B. Single-mode fiber
- C. Cat 6e
- D. Multimode fiber

**Correct Answer: A**

**QUESTION 96**

A network technician needs to ensure outside users are unable to telnet into any of the servers at the datacenter. Which of the following ports should be blocked when checking firewall configuration?

- A. 22
- B. 23
- C. 80
- D. 3389
- E. 8080

**Correct Answer: B**

**QUESTION 97**

An IT organization needs to optimize speeds for global content distribution and wants to reduce latency in high-density user locations. Which of the following technologies BEST meets the organization's requirements?

- A. Load balancing
- B. Geofencing
- C. Public cloud
- D. Content delivery network
- E. Infrastructure as a service

**Correct Answer: D**

**QUESTION 98**

A technician is searching for a device that is connected to the network and has the device's physical network address. Which of the following should the technician review on the switch to locate the device's network port?

- A. IP route table
- B. VLAN tag
- C. MAC table
- D. QoS tag

**Correct Answer: C**

**QUESTION 99**

After a firewall replacement, some alarms and metrics related to network availability stopped updating on a monitoring system relying on SNMP. Which of the following should the network administrator do FIRST?

- A. Modify the device's MIB on the monitoring system.
- B. Configure syslog to send events to the monitoring system.
- C. Use port mirroring to redirect traffic to the monitoring system.
- D. Deploy SMB to transfer data to the monitoring system.

**Correct Answer: A**

**QUESTION 100**

A technician wants to install a WAP in the center of a room that provides service in a radius surrounding a radio. Which of the following antenna types should the AP utilize?

- A. Omni
- B. Directional
- C. Yagi
- D. Parabolic

**Correct Answer: A**

**QUESTION 101**

Which of the following provides redundancy on a file server to ensure the server is still connected to a LAN even in the event of a port failure on a switch?

- A. NIC teaming
- B. Load balancer
- C. RAID array
- D. PDUs

**Correct Answer: A**

**QUESTION 102**

A lab environment hosts Internet-facing web servers and other experimental machines, which

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technicians use for various tasks A technician installs software on one of the web servers to allow communication to the company's file server, but it is unable to connect to it Other machines in the building are able to retrieve files from the file server. Which of the following is the MOST likely reason the web server cannot retrieve the files, and what should be done to resolve the problem?

- A. The lab environment's IDS is blocking the network traffic 1 he technician can whitelist the new application in the IDS
- B. The lab environment is located in the DM2, and traffic to the LAN zone is denied by default. The technician can move the computer to another zone or request an exception from the administrator.
- C. The lab environment has lost connectivity to the company router, and the switch needs to be rebooted. The technician can get the key to the wiring closet and manually restart the switch
- D. The lab environment is currently set up with hubs instead of switches, and the requests are getting bounced back The technician can submit a request for upgraded equipment to management.

**Correct Answer: B**

### **QUESTION 103**

A customer wants to segregate the traffic between guests on a hypervisor. Which of the following does a technician need to configure to meet the requirement?

- A. Virtual switches
- B. OSPF routing
- C. Load balancers
- D. NIC teaming
- E. Fibre Channel

**Correct Answer: A**

### **QUESTION 104**

Which of the following protocol types describes secure communication on port 443?

- A. ICMP
- B. UDP
- C. TCP
- D. IP

**Correct Answer: C**

### **QUESTION 105**

A company's network is set up so all Internet-bound traffic from all remote offices exits through a main datacenter. Which of the following network topologies would BEST describe this setup?

- A. Bus
- B. Spine-and-leaf
- C. Hub-and-spoke
- D. Mesh

**Correct Answer: C**

**QUESTION 106**

You are tasked with verifying the following requirements are met in order to ensure network security.

**Requirements:**

Datacenter

Ensure network is subnetted to allow all devices to communicate properly while minimizing address space usage

Provide a dedicated server to resolve IP addresses and hostnames correctly and handle port 53 traffic

Building A

Ensure network is subnetted to allow all devices to communicate properly while minimizing address space usage

Provide devices to support 5 additional different office users

Add an additional mobile user

Replace the Telnet server with a more secure solution

Screened subnet

Ensure network is subnetted to allow all devices to communicate properly while minimizing address space usage

Provide a server to handle external 80/443 traffic

Provide a server to handle port 20/21 traffic

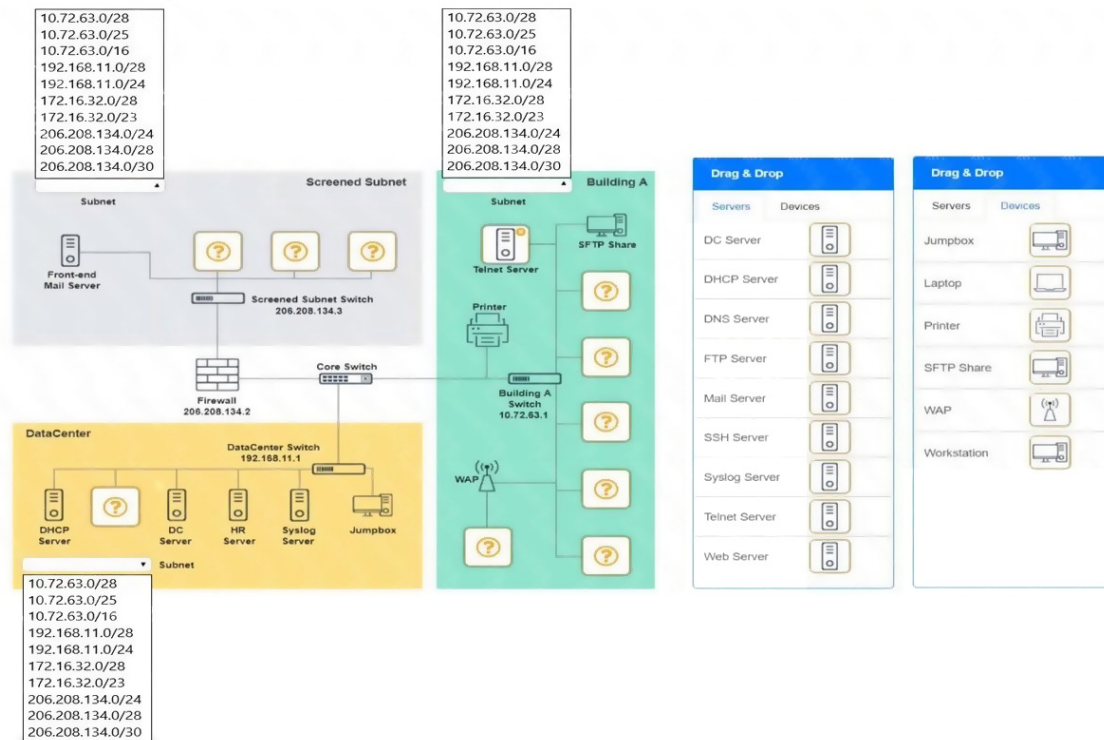
**INSTRUCTIONS**

Drag and drop objects onto the appropriate locations. Objects can be used multiple times and not all placeholders need to be filled.

Available objects are located in both the Servers and Devices tabs of the Drag & Drop menu.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

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### Correct Answer:

See explanation below.

### Explanation:

Top left subnet - 206.208.134.0/28

Top right subnet - 10.72.63.0/28

Bottom subnet - 192.168.11.0/28

Screened Subnet devices - Web server, FTP server

Building A devices - SSH server top left, workstations on all 5 on the right, laptop on bottom left

DataCenter devices - DNS server.

### QUESTION 107

Which of the following is required when connecting an endpoint device with an RJ45 port to a network device with an ST port?

- A. A media converter
- B. A bridge
- C. An MDIX
- D. A load balancer

**Correct Answer:** A