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CompTIA JK0-019

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QUESTION NO: 1

A technician is implementing a wireless network at a small business. The business already has a certificate authority and RADIUS server that they would like the technician to integrate with the wireless network. Additionally, the business would like to utilize their legacy 802.11b TKIP printers. Which of the following configurations should the technician use?

- A. 802.11a with WPA2-Enterprise
- B. 802.11n with WPA-PSK
- C. 802.11n with WPA2-PSK
- D. 802.11g with WPA-Enterprise

ANSWER: D**QUESTION NO: 2**

A network technician has determined a managed network switch has failed. The technician knows how to install a new switch, but not how to properly configure it. Which of the following troubleshooting steps should the technician take NEXT?

- A. Escalate the problem
- B. Identify potential effects
- C. Test the theory to determine cause
- D. Establish a plan of action to resolve the problem

ANSWER: A**QUESTION NO: 3**

Which of the following is always true when a router selects a destination?

- A. The default gateway is selected over any other static or dynamic route.
- B. The shortest route is always selected.
- C. The most specific route is selected over the default gateway.
- D. A dynamic route is selected over a directly attached network.

ANSWER: C**Explanation:**

Router always looks for the most closely matched route for forwarding the packet. For example if there are two routes in your router and you have to send a packet to a host with an ip 10.10.10.10 then it will forward packet to 192.168.1.10 rather than 192.168.1.1:

Network Destination Netmask Gateway

0.0.0.0 0.0.0.0 192.168.1.1

10.10.10.0 255.255.255.0 192.168.1.10

QUESTION NO: 4

A technician discovers that the throughput of sales traffic on the primary connection is constantly reaching maximum level, and the sales users are beginning to report slowness while accessing cloud based applications. The technician allows traffic to use the secondary connection so that traffic would share both connections. This is an example of which of the following?

- A. QoS
- B. Caching engines
- C. Traffic shaping
- D. Load balancing

ANSWER: D**QUESTION NO: 5**

Which of the following do DHCP servers provide to requesting devices on the network? (Select TWO).

- A. Encryption
- B. Leases
- C. SSID
- D. Channels
- E. Suffixes
- F. VLAN assignments

ANSWER: B E**QUESTION NO: 6**

A user is having difficulty connecting a laptop to the company's network via a wireless connection. The user can connect to the network via a wired NIC. The technician suspects the laptop's wireless NIC has failed. The technician performs hardware diagnostics on the wireless NIC and discovers the hardware is working fine. Which of the following network troubleshooting methodology steps should the technician do NEXT?

- A. Establish a plan of action to resolve the problem.
- B. Test the theory to determine a cause.
- C. Re-establish a new theory or escalate.
- D. Implement the solution or escalate as necessary.

ANSWER: C

QUESTION NO: 7

A user is unable to connect to a remote computer using RDP. The technician checks the firewall rules and notes that there is no rule that blocks RDP. Which of the following features of the firewall is responsible for blocking RDP?

- A. Stateful inspection
- B. NAT/PAT
- C. Port security
- D. Implicit deny

ANSWER: D

QUESTION NO: 8

A customer wants to increase firewall security. Which of the following are common reasons for implementing port security on the firewall? (Select TWO).

- A. Preventing dictionary attacks on user passwords
- B. Reducing spam from outside email sources
- C. Shielding servers from attacks on internal services
- D. Blocking external probes for vulnerabilities
- E. Directing DNS queries to the primary server

ANSWER: C D

Explanation:

Port security is required because if we keep the ports unsecure then hackers can do port scanning and can compromise the internal secured network so we will have to shield servers to avoid attacks from outside and we need to block incoming scanning request coming from outside.

QUESTION NO: 9 - (SIMULATION)

Wireless network users recently began experiencing speed and performance issues after access point 2 (AP2) was replaced due to faulty hardware. The original network was installed according to a consultant's specifications and has always worked without a problem.

You a network technician, have been tasked with evaluating the situation and resolving the issues to improve both performance and connectivity. Refer to the following diagram and perform any Necessary changes to the wireless and wired infrastructure by adjusting devices.

Note. Adjust the LEAST number of devices needed to fix the issue all blue icons in the image are clickable.



http://ap1.setup.cis

Wireless AP Configuration Settings

Basic Configuration

Access Point Name: AP1
IP Address: 192.168.100.151 / 24
Gateway: 192.168.100.1
SSID: CorpNET
SSID Broadcast: Yes No

Wireless

Mode: G
Channel: 1

Wired

Speed: Auto 100 1000
Duplex: Auto Half Full

Security

Security Settings: None WEP WPA
Key or Passphrase: 123456789b

Reset Submit

http://ap2.setup.cis

Wireless AP Configuration Settings

Basic Configuration

Access Point Name: AP2
IP Address: 192.168.100.152 / 24
Gateway: 192.168.100.1
SSID: CorpNET
SSID Broadcast: Yes No

Wireless

Mode: B
Channel: 1

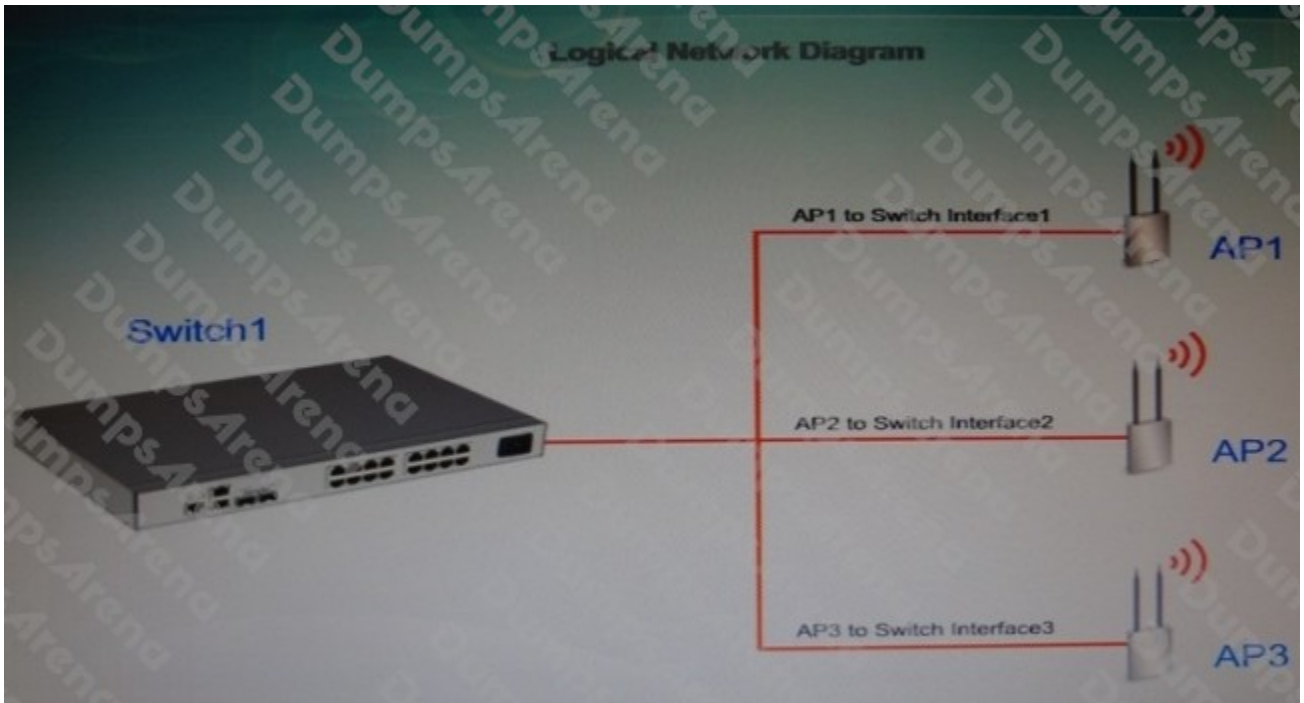
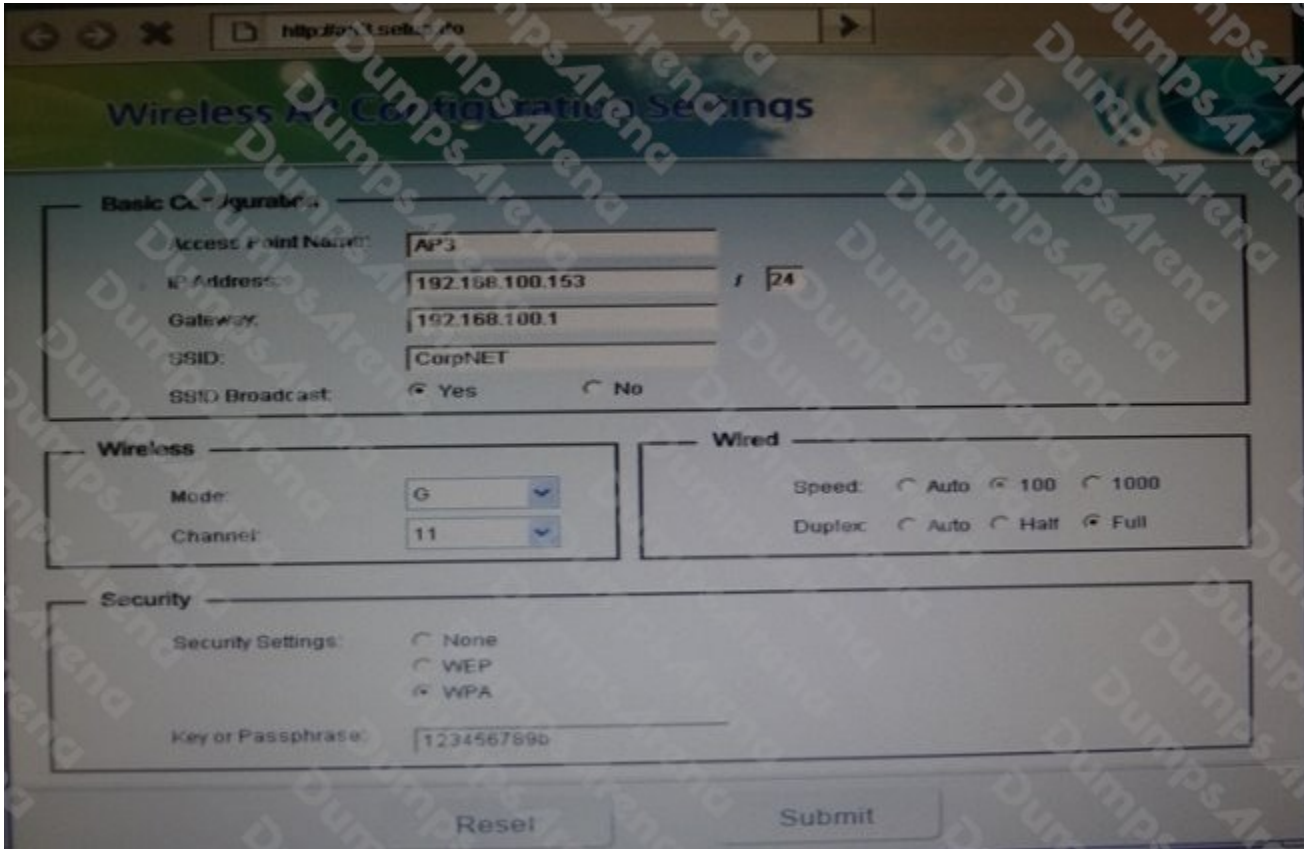
Wired

Speed: Auto 100 1000
Duplex: Auto Half Full

Security

Security Settings: None WEP WPA
Key or Passphrase: 123456789b

Reset Submit



ANSWER: See Explanation Below For Answer

Explanation:

AP2 configuration is not correct. The wireless mode should be 'G' and channel should be '11'. For the wired interface, the speed should be set to 100 and duplex to 'Full'. Click 'Submit'.

QUESTION NO: 10

The components of a NIC function at which of the following layers of the OSI model? (Select TWO).

- A. Layer 1
- B. Layer 2
- C. Layer 3
- D. Layer 4
- E. Layer 5

ANSWER: A B**QUESTION NO: 11**

Which of the following connector types are used in terminating singlemode fiber cables? (Select TWO).

- A. LC
- B. F-connector
- C. DB-9
- D. BNC
- E. RJ-11
- F. SC

ANSWER: A F**Explanation:**

A variety of optical fiber connectors are available, but SC and LC connectors are the most common types of connectors on the market.[citation needed] Typical connectors are rated for 500–1,000 mating cycles. The main differences among types of connectors are dimensions and methods of mechanical coupling. Generally, organizations will standardize on one kind of connector, depending on what equipment they commonly use. Different connectors are required for multimode, and for single-mode fibers

QUESTION NO: 12

In a newly installed LAN, the network administrator receives many calls about intermittent or slow connectivity to the authentication server. Which of the following could cause this problem? (Select TWO).

- A. VLAN configuration error
- B. Cables too short
- C. Cable crosstalk
- D. Incorrect channel
- E. EMI
- F. Wrong subnet mask

ANSWER: C E

QUESTION NO: 13

Which of the following TCP ports are used by FTP? (Select TWO).

- A. 20
- B. 21
- C. 22
- D. 23
- E. 25
- F. 80

ANSWER: A B

Explanation:

FTP uses two ports by default: 21 for sending commands, and 20 for sending data. For instance if you said "FTP " it would make the attempt using port 21. If the session was established, port 20 would be using for the data. NotE. These are the default ports which is what I assume you were asking. A server administrator can however configure FTP to use whatever port he defines.

QUESTION NO: 14

Which of the following is the OSI layer that handles file compression such as LZMA or DEFLATE?

- A. Layer 3
- B. Layer 5
- C. Layer 6
- D. Layer 7

ANSWER: C

QUESTION NO: 15






A technician is looking to create a new network cable. Which of the following tools would assist in creating and testing a cable properly? (Select TWO).

- A. Toner probe
- B. Cable certifier
- C. Butt set
- D. Crimper
- E. Network analyzer

ANSWER: B D

QUESTION NO: 16 - (DRAG DROP)

Drag and drop each networking tool to the MOST appropriate descriptor. Each tool may only be used once.

Used to verify known good patch cables		
Used to correct open short on a cable		
Used to determine which port a CAT6 cable is connected to		
Used to verify functionality after a NIC is installed		
Used to terminate a cable at a 110 block		

ANSWER:

Used to verify known good patch cables



Used to correct open short on a cable



Used to determine which port a CAT6 cable is connected to



Used to verify functionality after a NIC is installed



Used to terminate a cable at a 110 block



QUESTION NO: 17

Which of the following networking devices can exist at several layers of the OSI model at the same time? (Select TWO).

- A. Switch
- B. Cable

- C. Repeater
- D. Router
- E. Bridge
- F. Hub

ANSWER: A D

Explanation:

A Multilayer Switch and Router work from OSI layer 2, 3 or 4 to IP DSCP (if IP packet) and/or VLAN IEEE 802.1p.

QUESTION NO: 18

A technician has been called about intermittent connectivity near IDF 2. Multiple cables were recently pulled through a common conduit. Which of the following is MOST likely the cause of the problem?

- A. Crosstalk
- B. Bad connectors
- C. Wrong DNS
- D. Duplicate IP address

ANSWER: A

QUESTION NO: 19

Malicious users have used multiple workstations to target a single server with the intent of preventing legitimate users from accessing the server. This server suffered which of the following types of attack?

- A. DDoS
- B. Trojan
- C. Cross-site scripting
- D. Man in the middle
- E. Replay attack

ANSWER: A

QUESTION NO: 20

Which of the following reside at a minimum of Layer 3 of the OSI model? (Select TWO).

- A. Hub
- B. Switch
- C. MAC address
- D. IP address
- E. Router

ANSWER: D E