Vendor: CWNP

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QUESTION 1
Multicast video applications typically require special treatment on the Wi-Fi network due to the nature of multicast traffic. Many vendors implement proprietary multicast-to-unicast conversion for this reason. Which of the following is NOT a valid reason for special unicast conversion of downlink multicast traffic?

A. In QoS WLANs, multicast traffic is always assigned to the best effort (AC_BE) transmit queue.
B. Group addressed downlink frames are not acknowledged on the wireless medium.
C. Multicast traffic must always be transmitted via omnidirectional antennas.
D. Frames with a group receiver address must always be sent at a rate in the Basic Rate Set.

Answer: C

QUESTION 2
Given: Assume that music on hold (MOH) features are unicast only. What VoWiFi implementations require multicast packet delivery support by the WLAN infrastructure?

A. All VoWiFi implementations
B. Push-to-Talk VoWiFi phones
C. VoWiFi soft phones
D. FMC phones
E. Flat (non-VLAN) VoWiFi implementations

Answer: B

QUESTION 3
As you plan a WLAN upgrade, you have assessed the network requirements and data signatures of your applications. One of the popular applications used on your network requires high bandwidth and low to medium Wi-Fi loss, but can tolerate moderate latency and jitter. What application matches this description?

A. Voice
B. Email
C. Skype chat
D. Video-on-demand
E. Video conferencing
F. FTP

Answer: D

QUESTION 4
Given: The 802.11n APs you have selected for your public access deployment support many of the PHY and MAC enhancements offered by the 802.11n standard. The AP is single-band (2.4 GHz) and only allows 20 MHz channels. The WLAN radio in the AP is a 3x3 802.11n chip that supports two spatial streams. What is the maximum MCS rate that could be supported by this AP?

A. 54 Mbps
B. 65 Mbps
C. 108 Mbps

D. 144 Mbps
E. 150 Mbps
F. 300 Mbps

Answer: D

QUESTION 5
As an implementation engineer, you have just received initial design specs from a network
designer for your dual-band 802.11n deployment. The network design documents prescribe the
following data rate configuration for the 2.4 GHz radio:

```
Basic Rates -- 5.5, 6, 11, 12 Mbps
```

Supported Rates --9, 18, 24, 36, 48, and 54 Mbps as well as MCS 0-15 What will result from this
design strategy?

A. By disabling support for 1 and 2 Mbps while allowing 5.5 and 11 Mbps, the network will force
802.11b
clients to use these higher data rates.
B. Protection mechanisms will always be in use on this network to support 5.5 and 11 Mbps as basic
rates.
C. HR/DSSS (802.11b) stations will not be able to associate to the service set.
D. This configuration violates the IEEE specification that defines 6, 12, and 24 Mbps as mandatory
data
rates for 802.11g/n.
E. MCS 0 will represent the lowest data rate that can be used in the service set.

Answer: C

QUESTION 6
Given: As the wireless network administrator for XYZ Company, you are planning to upgrade your
aging wireless network infrastructure, as well as some clients, to support 802.11n. In your
research, you have discovered that your new wireless client devices and infrastructure are
802.11n, WMM, and WMM-PS certified by the Wi-Fi Alliance. Some of your existing client devices
are 802.11a/b/g devices that do not support WMM. Given this information, what scenario is
possible when your company's employees begin using both types of client devices on the new
WLAN?

A. All WMM-PS certified client devices will be prevented from utilizing WMM-PS features until all
stations
in use on the wireless medium are WMM-PS certified.
B. The WLAN infrastructure will set the dozing times of the WMM-PS certified client devices based
upon
their WMM access category, while the non-WMM-PS client devices will continue to use PS-Poll
frames.
C. Performance and battery life will be inconsistent between WMM-PS and non-WMM-PS client
devices
when used with applications that support WMM-PS.
D. WMM-PS enabled APs will allow both WMM-PS and non-WMM-PS stations to use the trigger-
and-delivery
mechanism, but WMM-PS stations will get priority.
E. When all STAs are using Power Save features, WMM-PS STAs will experience poor performance

due to
PS protection mechanisms.

Answer: C

QUESTION 7
To achieve a 450 Mbps MCS, what 802.11n features (from the numbered list below) are required?

```
1. Frame aggregation
2. Short GI
3. 40 MHz channels
4. 2 spatial streams
5. 3 spatial streams
6. Transmit beamforming (TxBF)
```

A. 1, 2, 3, 4
B. 1, 2, 3, 5
C. 1, 2, 3, 4, 6
D. 1, 2, 3, 5, 6
E. 2, 3, 4
F. 2, 3, 5

Answer: F

QUESTION 8
You are tasked with designing the WLAN to accommodate certain high density areas on your university campus where users are highly transient (frequently come and go). With a limited DHCP pool size (subnet mask = 255.255.252.0) for this WLAN subnet, you want to ensure that your DHCP addresses are used efficiently and are not exhausted, which would prevent new client associations. The DHCP server is a Windows Server 2008 machine. Your design task is to determine the best configuration to allow as many users as possible while avoiding WLAN service interruptions and also to use the available addresses as efficiently as possible. What setting would be most effective at achieving this design task?

A. Set the RTS threshold to 2346 bytes
B. Set the inactive wireless client timeout (client age-out) to 5 minutes
C. Set the maximum client limit per radio to 64
D. Set the DHCP lease for this pool to 20 minutes
E. Enable WLAN Controller DHCP relay
F. Enable mandatory admission control
G. Set the AES rekey interval to 5 minutes
H. Set the 802.1X re-authentication timer to 10 minutes

Answer: D

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