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QUESTION 1

ABC Company\\'s WLAN administrator is getting complaints from one user that his WLAN throughput is sluggish compared to other users in his area. The administrator takes his diagnostics laptop, which has a wireless protocol analyzer installed, to the area where the complaining user works. The administrator uses the PING utility to test connectivity from the complaining user\\'s wireless client station to another wireless client station across the closest access point, while capturing the wireless frames. The administrator sees what is displayed in this screenshot.

Packet	Source Physical	Dest. Physical	BSSID	Channel	Data Rate	Size	Protocol
59	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
60	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
61	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
62	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
63	00:09:5B:66:E6:80	00:09:5B:66:E6:08	00:0D:ED:A5:4F:70	6	11.0	260	PING Req
64	00:0D:ED:A5:47:70	00:09:5B:66:E6:80		6	11.0	14	802.11 Ack
65	00:09:5B:66:E6:80	00:09:5B:66:E6:08	00:0D:ED:A5:4F:70	6	11.0	260	802.11 Frag
66	00:0D:ED:A5:47:70	00:09:5B:66:E6:80		6	11.0	14	802.11 Ack
67	00:09:5B:66:E6:80	00:09:5B:66:E6:08	00:0D:ED:A5:4F:70	6	11.0	260	802.11 Frag
68	00:0D:ED:A5:47:70	00:09:5B:66:E6:80		6	11.0	14	802.11 Ack
69	00:09:5B:66:E6:80	00:09:5B:66:E6:08	00:0D:ED:A5:4F:70	6	11.0	260	802.11 Frag
70	00:0D:ED:A5:47:70	00:09:5B:66:E6:80		6	11.0	14	802.11 Ack
71	00:09:5B:66:E6:80	00:09:5B:66:E6:08	00:0D:ED:A5:4F:70	6	11.0	136	802.11 Frag
72	00:0D:ED:A5:47:70	00:09:5B:66:E6:80		6	11.0	14	802.11 Ack
73	00:0D:ED:A5:47:70	00:09:5B:66:E6:08		6	11.0	20	802.11 RTS
74	00:09:5B:66:E6:08	00:0D:ED:A5:4F:70		6	11.0	14	802.11 CTS
75	00:09:5B:66:E6:80	00:09:5B:66:E6:08	00:0D:ED:A5:4F:70	6	54.0	1064	PING Req
76	00:09:5B:66:E6:08	00:0D:ED:A5:4F:70		6	24.0	14	802.11 Ack
77		00:09:5B:66:E6:08		6	11.0	14	802.11 CTS
78	00:09:5B:66:E6:90	23:BD:1D:66:E6:80	00:0D:ED:A5:4F:70	6	54.0	1064	PING Reply
79		00:09:5B:66:E6:08		6	24.0	14	802.11 Ack
80	00:09:5B:66:E6:08	00:09:5B:66:E6:80	00:0D:ED:A5:4F:70	6	11.0	1064	PING Reply
81	00:09:5B:66:E6:80	00:0D:ED:A5:4F:70		6	11.0	14	802.11 Ack
82	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
83	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
84	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
85	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon

From this screenshot, which statements can you conclude to be TRUE that are related to the complaining user\\'s throughput problem? (Choose 2)

A. The complaining user\\'s WLAN client utilities are configured with a small fragmentation threshold.

B. The complaining user\\'s station is retransmitting fragments many times likely due to nearby RF interference.

C. The access point and other stations are using ERP-OFDM modulation, and the complaining user\\'s wireless client station is using HR/DSSS modulation.

D. The complaining user\\'s wireless client station should be using RTS/CTS as a protection mechanism, but it is not.

E. The access point is not signaling for protection (Protection = no) in the Beacons, but it should be.

Correct Answer: AC

QUESTION 2

Which statement accurately describes IEEE 802.11 Power Save operation in a Basic Service Set that does not support

the QoS facility?

A. Following a period of time in a low power state, client stations wake themselves and automatically poll the access point for traffic using a PS-Poll frame.

B. When the access point\\'s buffer is full, the access point wakes all client stations using a PS-Poll frame so that they can receive the data.

C. Upon receiving traffic for a dozing station, the access point wakes the client station using a PS-Poll frame so that the client station can receive the data.

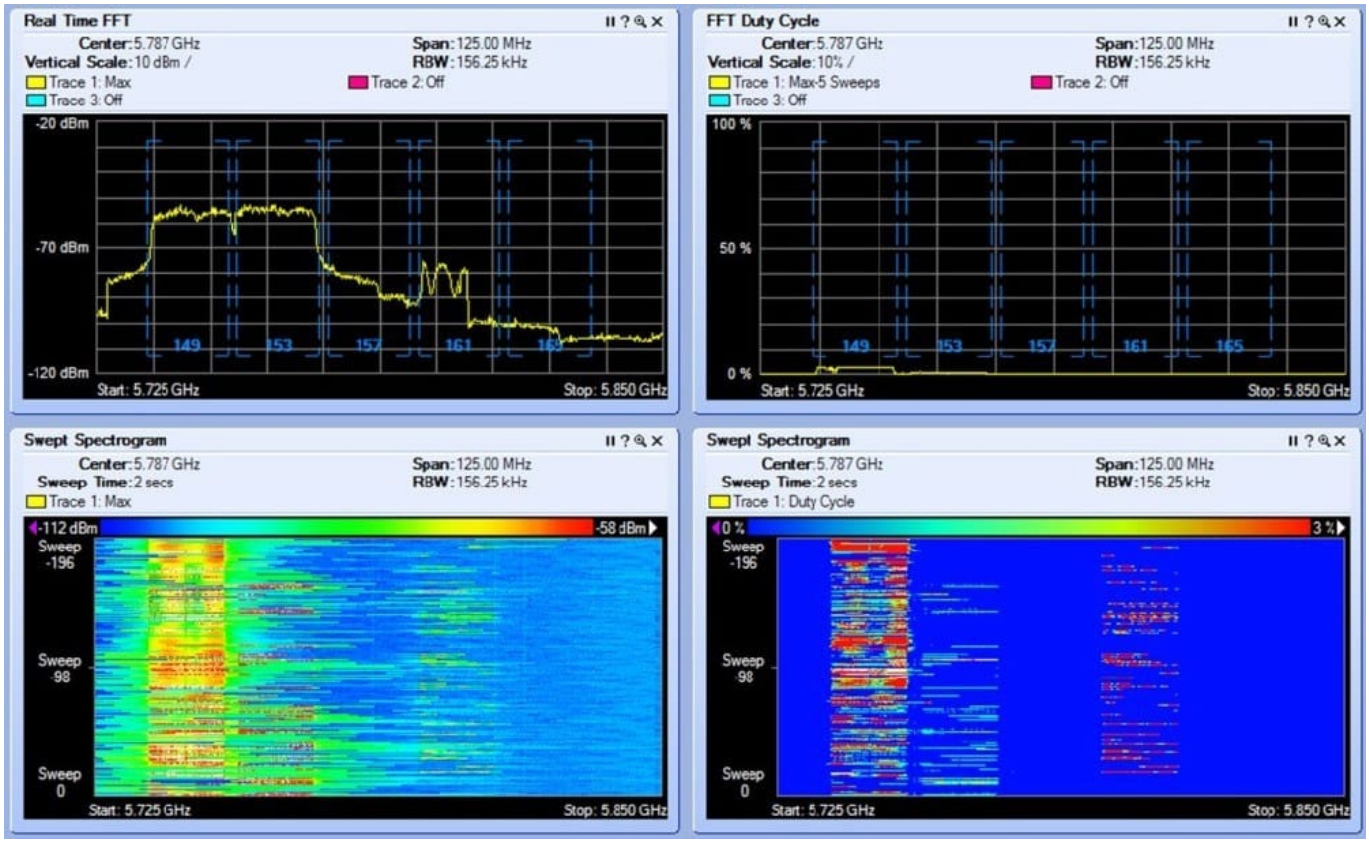
D. After waking from a low power state, client stations listen for the next Beacon to determine if sending a PS-Poll frame to the access point is necessary.

E. After waking at a scheduled TBTT, client stations send Null Function frames to the access point with the Power Management bit set back to zero.

Correct Answer: D

QUESTION 3

Given: The exhibit shows a small network environment with dual-band APs.



What is true of the network shown in this spectrum analyzer trace?

A. There are at least three APs operating in this environment. They are operating on channels 149, 153, and 161.

B. There are two 40 MHz BSSs in this environment. One AP has some 40 MHz traffic while the other AP has no client

traffic.

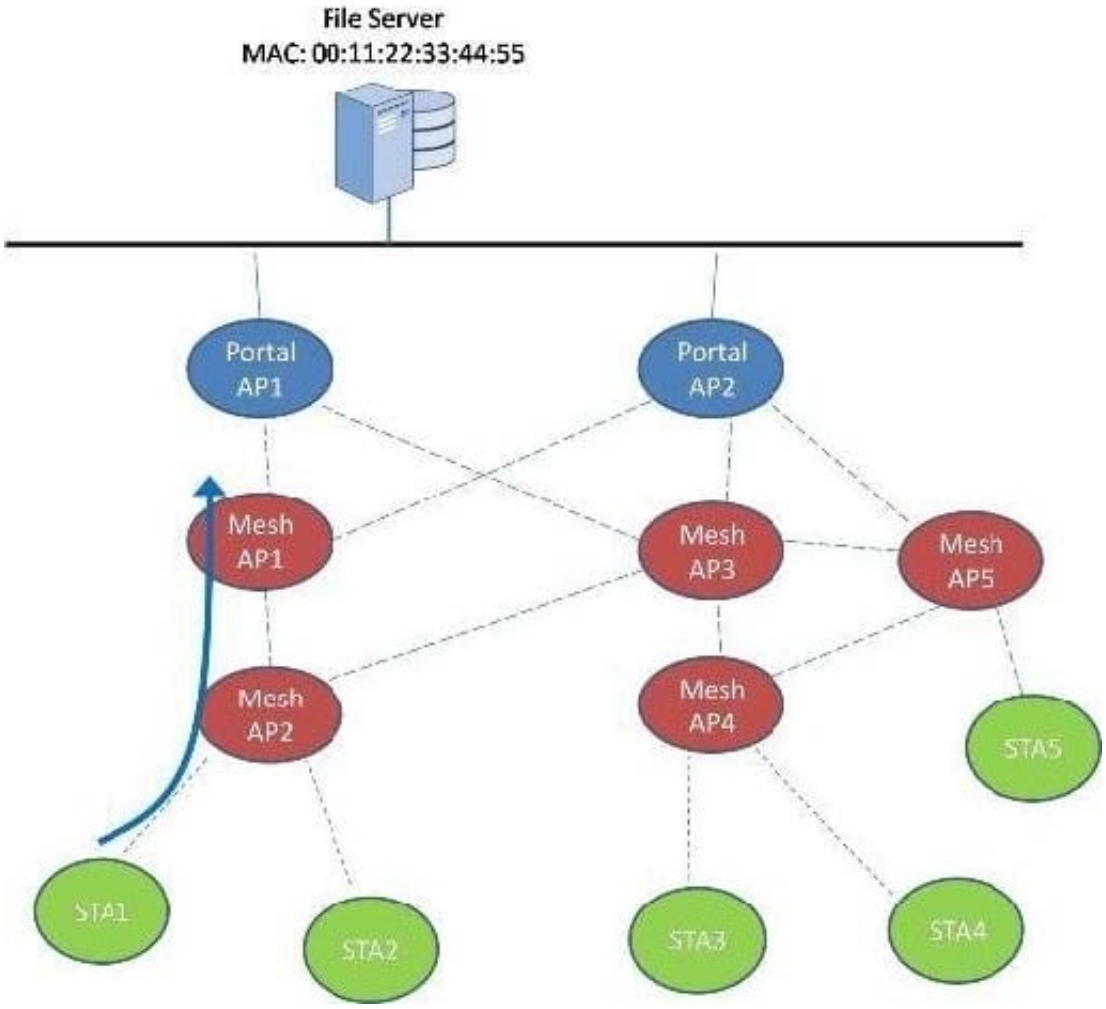
C. Only one AP in this network is configured to use the upper UNII band (UNII-3). All other APs are in lower 5 GHz channels.

D. Two 802.11a APs are near the spectrum analyzer and are heavily utilized on channels 149 and 153.

Correct Answer: B

QUESTION 4

Using the exhibit as a reference, answer the following.



STA1 sent a data frame to Mesh AP2 destined for a local file server on the same subnet with MAC address 00:11:22:33:44:55. Mesh AP2\\'s mesh forwarding algorithm determined that the frame should be forwarded through Mesh AP1.

In the frame sent from Mesh AP2 to Mesh AP1, what is true of the contents of the MAC header? (Choose 3)

A. SA = Mesh AP2\\'s MAC Address

B. RA = Mesh AP1\\'s MAC Address

C. TA = STA1\\'s MAC Address

D. DA = 00:11:22:33:44:55

E. To DS = 0

F. From DS = 1

Correct Answer: BDF

QUESTION 5

Which statements accurately describe IEEE 802.11 EDCA collision handling in a WMM-compliant infrastructure WLAN? (Choose 2)

A. When frames collide within a QoS STA, data frames from lower priority ACs behave (as it relates to contention) as if there were an external collision on the wireless medium.

B. Collisions between contending EDCAFs within a QoS STA are resolved within the QoS STA

C. When a frame transmission on the wireless medium fails, the transmitter may not transmit another frame from any AC or to any destination until the frame experiencing a failure is successfully transmitted or the max retry count for that frame is reached.

D. The WMM specification requires use of RTS/CTS as part of the EDCAF within each QoS STA to avoid internal collisions between ACs.

E. After frames collide within a QoS STA and the lower priority AC subsequently gains a TXOP, the retry bit in the MAC header must be set to 1 to indicate a retry.

Correct Answer: AB