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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
02	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	G	1.0	137	002.11 Deacon
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

Given the frame capture and the decode shown,

No	M	Time	Delta	CH	Length	S	▲	Source	Destination	Summary
48	☐	3/18 22:27:12.812691	4.812691	11	189	56	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
49	☐	3/18 22:27:12.915087	4.915087	11	189	57	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
50	☐	3/18 22:27:13.017488	5.017488	11	189	57	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
51	☐	3/18 22:27:13.119884	5.119884	11	189	60	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
52	☐	3/18 22:27:13.222283	5.222283	11	189	57	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
53	☐	3/18 22:27:13.324681	5.324681	11	189	57	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
54	☐	3/18 22:27:13.427072	5.427072	11	189	61	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
55	☐	3/18 22:27:13.529475	5.529475	11	189	61	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
56	☐	3/18 22:27:13.631869	5.631869	11	189	60	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
57	☐	3/18 22:27:13.734271	5.734271	11	189	61	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
58	☐	3/18 22:27:13.836669	5.836669	11	189	54	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon

```
□ 802.11 frame body
    times:amp : 23208636
    beacon interval : 100 TUs
  ⊞ capability info
  ⊞ info : SSID (0)
  ⊞ info : supported rates (1)
  ⊞ info : DS param set (3)
  ⊟ info : TIM (5)
      length : 4
      next DTIM : 3 beacon(s)
      DTIM period : 4 beacon(s)
      AID 0 traffic indicator : 0
      TIM offset : 0
      AID 0 traffic indicator : 0
      AID 1 traffic indicator : 0
      AID 2 traffic indicator : 0
      AID 3 traffic indicator : 0
      AID 4 traffic indicator : 0
      AID 5 traffic indicator : 0
      AID 6 traffic indicator : 0
      AID 7 traffic indicator : 0
  ⊞ info : ERP information (42)
  ⊞ info : extended supported rates (50)
  ⊞ info : AP Name (133)
  ⊞ info : WPA information (221)
```

after which Beacons in the list shown (as indicated by the frame number in the leftmost column) would multicast traffic have been sent in this infrastructure BSS if multicast traffic had been queued for transmission at the access point? (Choose 2)

A. Framenumber 49

B. frame number 50

C. frame number 51

D. frame number 53

E. frame number 54

F. frame number 55

G. frame number 57

Correct Answer: CF

QUESTION 3

What is indicated to a QoS AP when a QoS STA sets U-APSD Flag bits to 1 in (Re) Association frames?

A. Which access categories are both trigger-enabled and delivery-enabled

B. Which user priorities require use of a TSPEC

C. Which access categories require admission control

D. Which user priorities are mapped to access categories

E. Which access categories are scheduled

Correct Answer: A

QUESTION 4

According to the IEEE 802.11 standard, what is one structural difference between a MAC Protocol Data Unit (MPDU) and a MAC Management Protocol Data Unit (MMPDU)?

A. The MPDU frame\\'s FCS field is 4 bytes, while the MMPDU frame\\'s FCS field is 8 bytes.

B. The MMPDU frame body is limited to 300 bytes, whereas the MPDU frame body can carry up to 2304 bytes.

C. The MPDU header always places the BSSID in the first address field, but in the MMPDU the BSSID can be found in any of the address fields.

D. An MMPDU header may only contain three address fields, but an MPDU may have four address fields.

E. Both the MPDU and MMPDU have a QoS Control (QC) field, but all bits of the MMPDU\\'s QC field are always 0.

Correct Answer: D

QUESTION 5

Given the IEEE 802.11 Beacon frame decode shown,

```
⊟ network media info
      ┈ timestamp : 5/18 18:37:04.398113
      ┈ signal strength : 43% (-69 dBm)
      ┈ noise level : 0% (-95 dBm)
      ┈ frame length : 122
      ┈ data rate : 2 mbps
      ┈ channel : 3
      ┈ CRC error : no
⊟ 802.11 MAC header
  ⊞ frame control
      ┈ duration : 0 usec
      ┈ des: addr : FF:FF:FF:FF:FF:FF
      ┈ src addr : 00:0D:ED:A5:4F:70
      ┈ bssid : 00:0D:ED:A5:4F:70
      ┈ frag number : 0
      ┈ seq number : 1444
⊟ 802.11 frame body
      ┈ timestamp : 30B1BFA1:02000000
      ┈ beacon interval : 100 TU(s)
  ⊞ capability info
  ⊞ info : SSID (0)
  ⊞ info : supported rates (1)
  ⊟ info : DS param set (3)
      ┈ length : 1
      ┈ current channel : 1
  ⊞ info : TIM (5)
  ⊟ info : ERP information (42)
      ┈ length : 1
      ┈ Non-ERP station present : yes
      ┈ Use protection : yes
```

determine which statement is definitively true.

A. The access point is operating on channel 3.

B. The access point has both 1 Mbps and 2 Mbps configured as basic rates.

C. This Beacon frame came from an ERP or HT access point.

D. The SSID value in this Beacon is null.

E. ERP mobile stations must use the RTS/CTS protocol before Data transmissions.

Correct Answer: C

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