# PW0-270<sup>Q&As</sup>

Certified Wireless Analysis Professional

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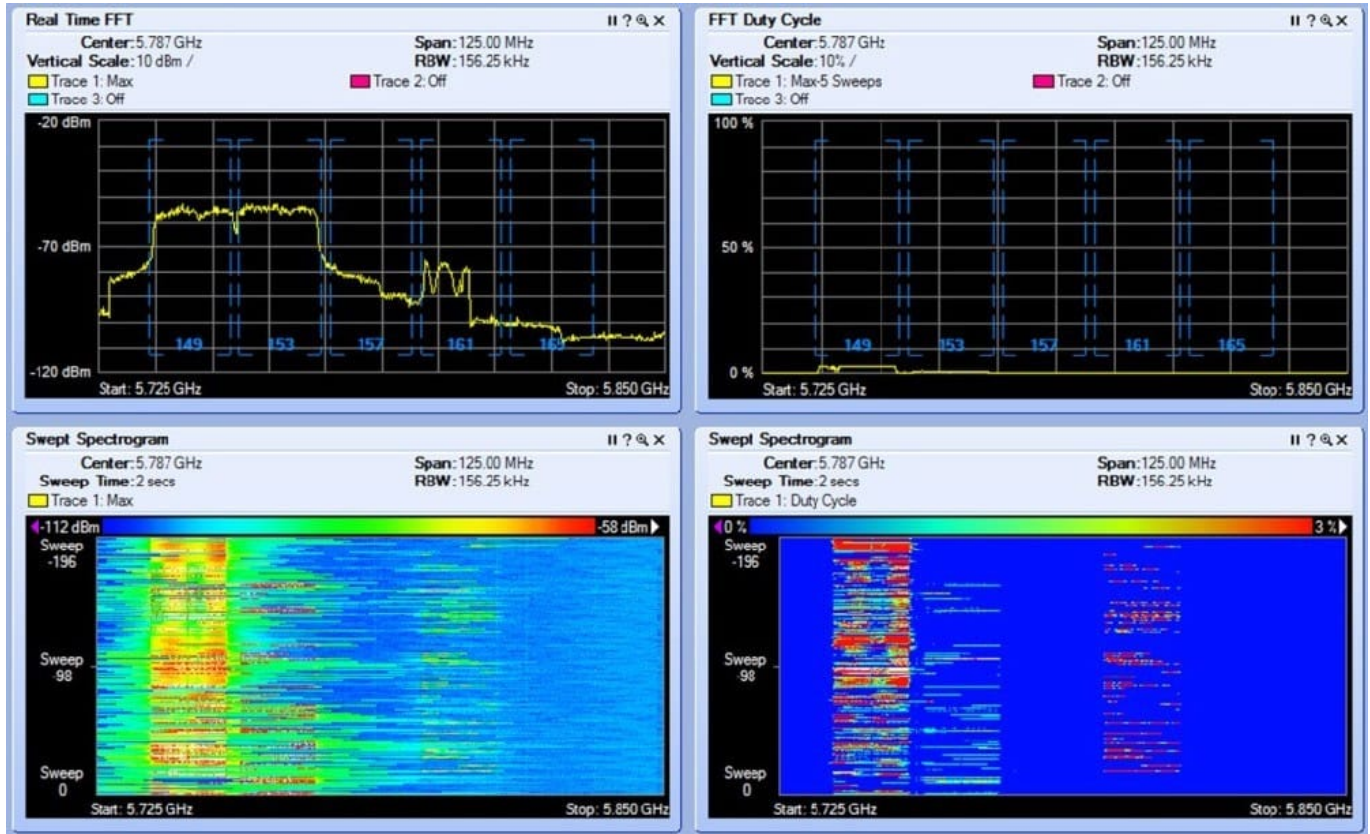
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**QUESTION 1**

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 2**

What is the purpose of a PHY preamble?

A. It provides the receiver(s) with an opportunity for RF channel synchronization prior to the start of the PLCP header.

B. It communicates important information about the PSDU\\'s length, rate, and upper layer protocol- related parameters.

C. It provides a cyclic redundancy check (CRC) for the receiving station to validate that the PLCP header was received correctly.

D. It indicates to the PHY the modulation that shall be used for transmission (and reception) of the PSDU.

Correct Answer: A

**QUESTION 3**

In the frame decode shown, there are two sets of supported data rates. 1, 2, 5.5, and 11 Mbps are all shown as "basic" data rates, and 6, 9, 12, 18, 24, 36, 48, and 54 Mbps are shown simply as supported data rates.

| No | M | Time | Delta | CH | Length | S | → | Source | Destination | BSSID | Summary |
|----|---|------|-------|-----|--------|---|---|--------|-------------|-------|---------|
| 1 | ✔ | 5/27 13:58:23.000000 | 0.000000 | 8 | 324 | -79 | 1 | Belkin:20:1C:C9 | FF:FF:FF:FF:FF:FF | Belkin:20:1C:C9 | 802.11 beacon |
| 2 | ☐ | 5/27 13:58:23.102381 | 0.102381 | 9 | 324 | -74 | 1 | Belkin:20:1C:C9 | FF:FF:FF:FF:FF:FF | Belkin:20:1C:C9 | 802.11 beacon |
| 3 | ☐ | 5/27 13:58:23.204795 | 0.204795 | 9 | 324 | -74 | 1 | Belkin:20:1C:C9 | FF:FF:FF:FF:FF:FF | Belkin:20:1C:C9 | 802.11 beacon |
| 4 | ☐ | 5/27 13:58:23.307191 | 0.307191 | 9 | 324 | -71 | 1 | Belkin:20:1C:C9 | FF:FF:FF:FF:FF:FF | Belkin:20:1C:C9 | 802.11 beacon |
| 5 | ☐ | 5/27 13:58:23.511987 | 0.511987 | 10 | 324 | -81 | 1 | Belkin:20:1C:C9 | FF:FF:FF:FF:FF:FF | Belkin:20:1C:C9 | 802.11 beacon |
| 6 | ☐ | 5/27 13:58:23.584619 | 0.584619 | 10 | 218 | -35 | 2 | Ruckus:01:90:B9 | FF:FF:FF:FF:FF:FF | Ruckus:01:90:B9 | 802.11 beacon |
| 7 | ☐ | 5/27 13:58:23.614398 | 0.614398 | 10 | 324 | -82 | 1 | Belkin:20:1C:C9 | FF:FF:FF:FF:FF:FF | Belkin:20:1C:C9 | 802.11 beacon |
| 8 | ☐ | 5/27 13:58:23.789402 | 0.789402 | 11 | 218 | -37 | 2 | Ruckus:01:90:B9 | FF:FF:FF:FF:FF:FF | Ruckus:01:90:B9 | 802.11 beacon |
| 9 | ☐ | 5/27 13:58:23.891814 | 0.891814 | 11 | 218 | -37 | 2 | Ruckus:01:90:B9 | FF:FF:FF:FF:FF:FF | Ruckus:01:90:B9 | 802.11 beacon |
| 10 | ☐ | 5/27 13:58:23.994217 | 0.994217 | 11 | 218 | -37 | 2 | Ruckus:01:90:B9 | FF:FF:FF:FF:FF:FF | Ruckus:01:90:B9 | 802.11 beacon |
| 11 | ☐ | 5/27 13:58:24.023987 | 1.023987 | 11 | 324 | -79 | 1 | Belkin:20:1C:C9 | FF:FF:FF:FF:FF:FF | Belkin:20:1C:C9 | 802.11 beacon |
| 12 | ☐ | 5/27 13:58:24.096606 | 1.096606 | 12 | 218 | -38 | 2 | Ruckus:01:90:B9 | FF:FF:FF:FF:FF:FF | Ruckus:01:90:B9 | 802.11 beacon |
| 13 | ☐ | 5/27 13:58:24.331211 | 1.331211 | 12 | 324 | -81 | 1 | Belkin:20:1C:C9 | FF:FF:FF:FF:FF:FF | Belkin:20:1C:C9 | 802.11 beacon |
| 14 | ☐ | 5/27 13:58:25.048014 | 2.048014 | 1 | 324 | -28 | 1 | Belkin:20:1C:C9 | FF:FF:FF:FF:FF:FF | Belkin:20:1C:C9 | 802.11 beacon |

```
⊞ info : SSID (0)
⊟ info : supported rates (1)
    ┄ length : 4
    ┄ rate : 1.0 mbps basic
    ┄ rate : 2.0 mbps basic
    ┄ rate : 5.5 mbps basic
    ┄ rate : 11.0 mbps basic
⊞ info : DS param set (3)
⊞ info : TIM (5)
⊞ info : ERP information (42)
⊟ info : extended supported rates (50)
    ┄ length : 8
    ┄ rate : 6.0 mbps
    ┄ rate : 9.0 mbps
    ┄ rate : 12.0 mbps
    ┄ rate : 18.0 mbps
    ┄ rate : 24.0 mbps
    ┄ rate : 36.0 mbps
    ┄ rate : 48.0 mbps
    ┄ rate : 54.0 mbps
```

What is true of "basic" data rates in this context?

A. The AP requires all client stations to support Basic rates in order to associate to its BSS.

B. The highest data rate set to Basic is automatically used to send broadcast traffic such as Beacon frames.

C. Basic rates are optional data rates for the BSS, often used for assuring connectivity for legacy stations.

D. Basic rates are only used for multicast traffic, and do not affect unicast traffic.

E. Basic rates are defined in an AP\\'s service set to specify mandatory data rates for all retry frames.

Correct Answer: A

**QUESTION 4**

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**
  - timestamp : 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 5**

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