Quiz

Note: It is recommended that you save your response as you complete each question.

Question 1 (1 point)

For which Connection Events, n, would the frequency channel need to be remapped due to interference from WiFi's channel 11 which corresponds to BLE's channels 24-32? (select all that apply)

Assumptions:

at n=0, f(0) = channel 8, hop = 12

- ☐ n = 6

- ☑ n = 2

- ☐ n = 4

- ☐ n = 3

- ☑ n = 5

- ☐ n = 1

Save

Question 2 (1 point)

Encapsulation   means expressing features of something succinctly.

Save

Question 3 (1 point)

Which Bluetooth family profile specifies in detail the operation of both end points?

- ○ Bluetooth Smart

- ○ Bluetooth Low Energy

- ◉ Bluetooth Classic

Save

Question 4 (1 point)

In Bluetooth Low Energy, | atomic | means of or forming a singe irreducible unit of component of a larger system.

Save

Question 5 (1 point)

For which Connection Events, n, would the frequency channel need to be remapped due to interference from WiFi's channel 6 which corresponds to BLE's channels 11-20? (select all that apply)

Assumptions:

at n=0, f(0) = channel 9, hop = 14

- ☑ n = 3

- ☐ n = 4

- ☑ n = 6

- ☐ n = 5

- ☐ n = 2

- ☐ n = 1

Save

Question 6 (1 point)

How long is the longest data packet in Bluetooth Low Energy?

- ○ 80uS

- ○ 128uS

- ○ 144uS

- ◉ 376uS

Save

Question 7 (1 point)

Select all the statements below that incorporate the Bluetooth Low Energy Asymmetric Design Philosophy.

☑ Radio packets are small

☑ The slave does not run the profile

☑ A device with more energy resources are given more to do

☑ Master devices perform scanning

[Save]

Question 8 (1 point)

How long is the shortest data packet in Bluetooth Low Energy?

◉ 80uS

○ 128uS

○ 144uS

○ 376uS

[Save]

Question 9 (1 point)

How does short BLE packets and the 150uS dead time between transmit and receive save energy?

☑ Reduces the time of the 2.4GHz oscillator being on

☐ Maximizes the duty cycle of transmitting data

☑ Radio stays cool

☑ Reduces peak current duration of the radio transmitter

[Save]

Question 10 (1 point)

[Immutable] means that once a service is published, it cannot change.

[Save]

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