Quiz

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

Question 1 (1 point)

For which hop value would result in remapping due to WiFi channel 6 interference that corresponds to BLE channels 11-20 if at n=0, f = channel 7 at n = 8?

- (•) hop = 10
- ( ) hop = 12
- ( ) hop = 14
- ( ) hop = 7

Save

Question 2 (1 point)

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

- [x] The client runs the profile
- [x] Slave devices perform advertising
- [ ] The client determines what connInterval that the paired devices will operate while connected
- [x] A device with smaller energy resources are given less to do

Save

Question 3 (1 point)

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

- (•) 80uS
- ( ) 128uS
- ( ) 144uS
- ( ) 376uS

Save

Question 4 (1 point)

When connections are transient like in Bluetooth Low energy, the time to make a connection must be short (single word answer).

Save

Question 5 (1 point)

How long is the typically advertising packet in Bluetooth Low Energy?

- 80uS
- 128uS
- 144uS
- 376uS

Save

Question 6 (1 point)

Bluetooth Smart is an asymmetric architecture where the resource rich devices perform the advertising.

- True
- False

Save

Question 7 (1 point)

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

Save

Question 8 (1 point)

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

- [ ] Maximizes the duty cycle of transmitting data
- [x] Reduces the time of the 2.4GHz oscillator being on
- [x] Radio stays cool
- [x] Reduces peak current duration of the radio transmitter

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Question 9 (1 point)

Select all that apply to Bluetooth Classic

- [ ] Master transmits on odd time slots
- [x] Each time slot is equal to 625uS
- [ ] The 2.4GHz RF band is broken into 40 2MHz channels
- [x] The Bluetooth radio hops 1600 times per second

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Question 10 (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 = 1
- [ ] n = 4
- [ ] n = 3
- [x] n = 5
- [x] n = 2

Save

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