Quiz

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

Question 1 (1 point)

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

- (•) Bluetooth Classic
- ( ) Bluetooth Smart
- ( ) Bluetooth Low Energy

Save

Question 2 (1 point)

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

- ( ) True
- (•) False

Save

Question 3 (1 point)

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

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

Save

Question 4 (1 point)

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

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

Save

Question 5 (1 point)

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

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

Save

Question 6 (1 point)

A service is an immutable encapsulation of some atomic behavior of a device.

Save

Question 7 (1 point)

Encapsulation means expressing features of something succinctly.

Save

Question 8 (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 = 1
- [ ] n = 4
- [ ] n = 5
- [x] n = 6
- [x] n = 3
- [ ] n = 2

Save

Question 9 (1 point)

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

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

Save

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 = 3
- [ ] n = 6
- [ ] n = 1
- [x] n = 5
- [x] n = 2
- [ ] n = 4

Save

Save All Responses | Go to Submit Quiz