# Quiz

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

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## Question 1 (1 point)

Short packets are good for Bluetooth LE for what reasons? (select all that apply)

☐ Efficient encoding enables larger quantity of data to be sent faster, thus using less energy.

☑ Short packet transmissions removes the requirement of constantly recalibrating the radio.

☑ Short current pulses out of a button-cell battery is more efficient than long continuous current drain.

Save

## Question 2 (1 point)

What are the main strengths of Bluetooth Classic? (select all that apply)

☑ Simultaneously handle both data and voice transmissions

☐ Line of sight communications

☑ Ad-hoc connections

☑ Automatic service discovery

Save

## Question 3 (1 point)

In the Bluetooth LE Generic Attribute Profile (GATT), what are the primary roles defined? (select all that apply)

☐ Peripheral

☑ Client

☐ Central

☑ Server

Save

## Question 4 (1 point)

The Leopard Gecko I2C peripheral's obtain its clock from what source?

- ☐ LFA

- ☑ HFPERCLK

- ☐ ULFRCO

- ☐ HFCLK

[ Save ]

## Question 5 (1 point)

How long does it take a Bluetooth Classic typically to make a connections?

- ○ 200-500 micro seconds

- ◉ 2-4 seconds

- ○ 2-4 milli seconds

- ○ 200-500 milli seconds

[ Save ]

## Question 6 (1 point)

What are the key specifications in determining a coin-cell battery life in a BLE application?

- ☑ Internal resistance of the battery

- ☐ The peak current while the radio is in active mode

- ☑ The duty cycle of the active radio RX/TX

- ☑ The duty cycle of the BLE device sleep mode

[ Save ]

## Question 7 (1 point)

In general, what is the preferred order of operation to disable an external device via Load Power Management using a GPIO pin as the power source?

| 1 ▼ | Disable or turn off Interrupts if used |
| 3 ▼ | Set GPIO power pin LOW |
| 2 ▼ | Disable GPIO I//O pins |

Save

## Question 8 (1 point)

Which Bluetooth LE term is most similar in functionality to a GATT Client?

- ○ GAP Peripheral
- ◉ GAP Central
- ○ GAP Server

Save

## Question 9 (1 point)

In general, what is the preferred order of operation to enable an external device via Load Power Management using a GPIO pin as the power source?

| 4 ▼ | Initialize, program, the external peripheral |
| 1 ▼ | Set GPIO power pin HIGH |
| 2 ▼ | Wait for power to stabilize and external device to boot |
| 3 ▼ | Enable GPIO I//O pins |
| 5 ▼ | Enable Interrupts if used |

Save

## Question 10 (1 point)

Which device is the primary power source in a BLE device while in sleep mode?

- ◉ The coin-cell battery
- ○ The capacitance

Save

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