Quiz

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

Question 1 (1 point)

Selct all examples of a status that would need to come from a client profile or a client application?

- [x] The gas pedal has been depressed and the car is accelerating
- [ ] The engine temperature is 105C
- [ ] The right front tire pressure sensor reads 85C
- [x] Someone has approached and the security panel is open

Save

Question 2 (1 point)

As a rule of thumb in a capacitive touch sensor, the signal to noise ratio should be above 5 for good performance.

Save

Question 3 (1 point)

In terms of a BLE server, the light switch is ON is an example of what type of BLE state information?

internal (one word answer)

Save

Question 4 (1 point)

Select all good design practices in reference to better securing an IoT device.

- [x] Firmware should not be enabled to be read from memory
- [ ] Use the device MAC address as the input to the Md5 has algorithm
- [ ] Use email addresses for usernames
- [x] Each device in a network must use encrypted authentication

Save

Question 5 (1 point)

For a capacitive touch sensor implementation using the LESENSE peripheral in the Silicon Labs' Gecko family of micro controllers, order the flow of steps by the LESENSE peripheral.

1 ▼ The analog comparators are switched on in capacitive touch mode

4 ▼ If the count compare is above the threshold, the interrupt is sent

3 ▼ The counted value is stored and compared to a threshold

2 ▼ The analog comparator output is gated to the LESENSE counter which starts counting

Save

Question 6 (1 point)

Select all good design practices in reference to better securing an IoT device.

- [ ] Trust other devices behind the firewall
- [ ] Rely on proprietary protocols to provide security
- [x] Disable debug ports before product is shipped to consumers
- [x] Security patches occur automatically

Save

Question 7 (1 point)

For the LESENSE capacitive touch solution, the sample delay is increased to increase sensitivity.

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Question 8 (1 point)

A capacitive touch sensor operates by measuring the frequency of the non-touched sensor compared to the touched sensor.

Will touching the capacitive touch sensor increase or decrease the frequency seen by the capacitive touch sensor?

decreases

Save

Question 9 (1 point)

In terms of a BLE server, receiving a command to turn on the lights is an example of what type of BLE state information?

abstract (one word answer)

Save

Question 10 (1 point)

IoT devices and platform service providers based on good design practices must enable their devices and services to be remotely (one word answer) patched to withstand and prevent basic cyber attacks.

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