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NPTEL

Courses » **Advanced IoT Applications** Announcements   **Course**   Ask a Question   Progress   FAQ

Unit 8 - Device Security

Register for Certification exam

Course outline

How to access the portal

MATLAB Online Access and Learning Modules

Localization in IoT - Part 1

Localization in IoT - Part 2

Sensors and protocols for next generation automobiles

Automotive IoT

Speech to text processing

Device Security

● Device Security Part -1

● Device Security Part -2

● Device Security Part -3

○ Quiz : Week 6 Assessment

Week 6 Assessment

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.   **Due on 2019-03-13, 23:59 IST**

1) Decrypting the protected Wi-Fi network is a vulnerability in WPA   *1 point*

○ True
○ False

No, the answer is incorrect.
Score: 0

Accepted Answers:
True

2) Which one of the following generates output bits based on delay difference between two identical devices: *1 point*

○ Butterfly PUF
○ RO PUF
○ SRAM PUF
○ BusKeeper PUF

No, the answer is incorrect.
Score: 0

Accepted Answers:
RO PUF

3) In a semiconductor chip manufacturing process, PUFs are generated due to: *1 point*

○ Manufacturer intervention is not required for unique signature
○ Process variations are sufficient for unique signature
○ Switching speeds between transistor elements in a chip are different and thus cause signal propagation to vary

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Interaction Session

4) The first step in hacking into the standard product is to: *1 point*

- ○ Change the U-Boot process and boot into a rudimentary shell
- ○ Bombard the system with several DDoS packets and exploit the buffer overflow
- ○ Get access using the UART port and study the boot sequence
- ○ Break the product package and change jumper positions

No, the answer is incorrect.
Score: 0

Accepted Answers:
Get access using the UART port and study the boot sequence

5) For generating ADC PUFs, one requires the following: *1 point*

- ○ ADC is sufficient
- ○ ADC and DAC connected back to back
- ○ DAC is sufficient
- ○ All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
ADC and DAC connected back to back

6) Brute-force attack is not used to decrypt passwords   *1 point*

- ○ True
- ○ False

No, the answer is incorrect.
Score: 0

Accepted Answers:
False

7) Which among the following method is close to 1 in creating PUF?   *1 point*

- ○ Partially skewed cells
- ○ Unskewed cells
- ○ Full skewed cells
- ○ All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Partially skewed cells

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