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Introduction to IoT English 1120 dm

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Time taken 11 mins 23 secs

Marks 26.00/33.00

Grade 78.79 out of 100.00

Question 1

Correct

Mark 2.00 out of 2.00

 Flag question

How are USB flash drives a security risk?

Select one:

- ☐ They cannot be encrypted.
- ☐ They contain wireless antennas.
- ☐ They contain a remote sensor.
- ☒ They have a controller that can be infected. ✓

Refer to curriculum topic: 5.1.3

USB and thumb drives include a tiny controller that can be infected with malware. No antivirus scanning will detect the malware because it is contained in the controller and not in the data area.

The correct answer is: They have a controller that can be infected.

Question 2

Correct

Mark 3.00 out of 3.00

 Flag question

What are three examples of personally identifiable information? (Choose three.)

Select one or more:

- ☒ bank account number ✓
- ☐ home thermometer value
- ☐ home water usage
- ☒ birth date ✓
- ☐ vehicle fuel consumption
- ☒ vehicle identification number ✓

Refer to curriculum topic: 5.1.1

Personally identifiable information is any data that is related to an actual person that when used on its own or in combination with other information can identify, contact, or locate a specific individual.

The correct answers are: bank account number, birth date, vehicle identification number

Question 3

Correct

Mark 2.00 out of 2.00

 Flag question

What is a wireless router security best practice that limits access to only specific internal hosts?

Select one:

- ☐ enabling encryption
- ☐ enabling the built-in firewall
- ☒ MAC address filtering ✓
- ☐ disabling SSID advertisements

Refer to curriculum topic: 5.1.3

Media Access Control (MAC) address filtering enables a wireless router to check the MAC addresses of internal devices trying to connect to it. This allows connections to be limited to only devices with MAC addresses known to the router.

The correct answer is: MAC address filtering

Question 4

Correct

Mark 2.00 out of 2.00

 Flag question

What is used to identify a wireless network?

Select one:

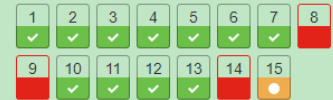
- ☒ SSID ✓
- ☐ MAC address
- ☐ IP address
- ☐ SPI

Refer to curriculum topic: 5.1.2

A wireless network is identified by a name which is known as the service set identifier or SSID.

The correct answer is: SSID

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Question 5

Correct

Mark 3.00 out of 3.00

Flag question

Which three passwords are the least secure? (Choose three.)

Select one or more:

- ☐ s3CurE_p@ss
- ☒ 135792468 ✓
- ☒ asdfghjkl ✓
- ☐ 34%cafe_l
- ☒ randolph ✓
- ☐ C!3c0_Rock\$

Refer to curriculum topic: 5.1.3

Strong passwords should be at least 8 characters in length and include upper and lower case characters, numbers, and special characters.

The correct answers are: randolph, 135792468, asdfghjkl

Question 6

Correct

Mark 2.00 out of 2.00

Flag question

Why would an IT person use Zabasearch?

Select one:

- ☐ to research an app
- ☐ to research an IoT device
- ☐ to research a business
- ☒ to research a person ✓

Refer to curriculum topic: 5.1.1

Zabasearch (www.zabasearch.com) is a comprehensive people search engine.

The correct answer is: to research a person

Question 7

Correct

Mark 2.00 out of 2.00

Flag question

An employee is using a coffee shop Wi-Fi hotspot to access corporate email. What action can the employee take to reduce the security risk of using a hotspot?

Select one:

- ☐ Scan emails with antivirus software.
- ☐ Only click on embedded links in email messages from trusted colleagues.
- ☒ Encrypt traffic through a VPN. ✓
- ☐ Verify the name of the sender of emails before opening them.

Refer to curriculum topic: 5.1.3

Attackers will often deploy fake Wi-Fi hotspots in public locations, such as coffee shops, to lure users. The attacker has access to all the information exchanged via the compromised hotspot, putting the unsuspecting users at risk. For this reason, always send data through an encrypted VPN when using a hotspot.

The correct answer is: Encrypt traffic through a VPN.

Question 8

Incorrect

Mark 0.00 out of 2.00

Flag question

What is a goal of performing a risk assessment?

Select one:

- ☐ outlining job duties and expectations ✗
- ☐ restricting access to physical assets
- ☐ educating users in secure procedures
- ☒ valuing assets to justify security expenditures

Refer to curriculum topic: 5.1.2

One of the goals of performing a risk assessment is to understand the value of protected assets so that security expenditures are justified.

The correct answer is: valuing assets to justify security expenditures

Question 9

Incorrect

Mark 0.00 out of 2.00

Flag question

How can a virtual assistant be a security risk?

Select one:

- ☐ Encryption protocols are not supported.
- ☐ Personal information could be leaked.
- ☒ Personal devices could be remotely seen. ✗
- ☐ Sensor options could be modified.

Refer to curriculum topic: 5.1.3

The sensors could be used to access a home network and gain access to PCs and data. Personal information such as passwords or credit card information could be compromised.

The correct answer is: Personal information could be leaked.

Question 10

Correct

Mark 2.00 out of 2.00

Flag question

Which two online activities pose high security risks? (Choose two.)

Select one or more:

- ☒ following email links that have already been scanned by the email server ✓
- ☐ creating a very complex password for a new account and storing it in a password manager service
- ☐ verifying a banking site URL before entering information
- ☒ sharing information on social media ✓
- ☐ using a VPN to access the Internet from a Wi-Fi hot spot

Refer to curriculum topic: 5.1.3

The two most risky online behaviors listed are these:

- Sharing news articles only with friends and family on social media. The more information shared on social media, the more an attacker can learn.
- Following email links that have already been scanned by the email server. Scanned emails can still contain forged links to malicious sites.

The correct answers are: sharing information on social media, following email links that have already been scanned by the email server

Question 11

Correct

Mark 3.00 out of 3.00

Flag question

Which three elements should be combined when creating a strong password? (Choose three.)

Select one or more:

- ☒ special characters ✓
- ☒ combinations of letters and numbers ✓
- ☒ phrases ✓
- ☐ personal information
- ☐ pet names
- ☐ dictionary words

Refer to curriculum topic: 5.1.3

Strong passwords should have combined letters, numbers, special characters, phrases, and be at least eight (8) characters long.

The correct answers are: combinations of letters and numbers, special characters, phrases

Question 12

Correct

Mark 2.00 out of 2.00

Flag question

What are two recommended steps to protect and secure a wireless network? (Choose two.)

Select one or more:

- ☒ Update firmware. ✓
- ☒ Use WPA2-AES encryption. ✓
- ☐ Locate the wireless router where it is accessible to users.
- ☐ Use the default SSID.
- ☐ Enable remote management.

Refer to curriculum topic: 5.1.2

Two best practices for securing wireless networks are to encrypt the wireless traffic with WPA2 encryption and to keep the wireless router firmware updated. This prevents data from being readable by an attacker and fixes any known bugs and vulnerabilities in the router.

The correct answers are: Update firmware., Use WPA2-AES encryption.

Question 13

Correct

Mark 2.00 out of 2.00

Flag question

What is the goal of a white hat hacker?

Select one:

- ☒ protecting data ✓
- ☐ validating data
- ☐ stealing data
- ☐ modifying data

Refer to curriculum topic: 5.1.1

White hat hackers are actually "good guys" and are paid by companies and governments to test for security vulnerabilities so that data is better protected.

The correct answer is: protecting data

Question 14

Incorrect

Mark 0.00 out of 2.00

Flag

Which action can help reduce online risk?

Select one:

- ☐ only accept unsolicited software updates when logged into a secure network
- ☐ only click embedded links in email messages from friends

question

- ☐ only conduct transactions on websites after verifying the URL is correct
- ☐ only download programs with the most positive reviews on 3rd party websites ❌

Refer to curriculum topic: 5.1.3

Malicious websites can easily be made to mirror official bank or financial institution websites. Before clicking the links or providing any information, double-check the URL to make sure it is the correct web page for the institution.

The correct answer is: only conduct transactions on websites after verifying the URL is correct

Question **15**

Partially correct

Mark 1.00 out of 2.00

🚩 Flag question

Match the security best practice to the description.

educating users	research and perform background checks on employees ⇅ ❌
employing access controls	assign user roles and privilege levels ⇅ ✔️
implementing human resource security measures	train users on security procedures ⇅ ❌
regularly testing incident responses	perform and test emergency response scenarios ⇅ ✔️

The correct answer is: educating users → train users on security procedures, employing access controls → assign user roles and privilege levels, implementing human resource security measures → research and perform background checks on employees, regularly testing incident responses → perform and test emergency response scenarios

◀ Chapter 5: Terms and Concepts Practice

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