

Question 3 Correct Mark 2.00 out of 2.00	Which type of attack takes advantage of vulnerabilities in servers to grant unauthorized users higher than approved levels of access?  Select one:  default login
P Flag question	<ul> <li>buffer overflow</li> <li>privilege escalation</li> <li>backdoor installation</li> </ul>
	Refer to curriculum topic: 3.3.1  Privilege escalation is an exploit where vulnerabilities in servers or access control systems are exploited to grant unauthorized users higher levels of privilege than they should have. After the privilege is granted, a threat actor can access sensitive information or take control of a system.  The correct answer is: privilege escalation
Question 4 Correct Mark 2.00 out of 2.00 Flag question	Which two scripting languages are designed to be executed directly under an operating system? (Choose two.)  Select one or more:  Python  shell script  PowerShell  JavaScript  PHP
	Refer to curriculum topic: 3.1.2  Linux shell scripts and Windows PowerShell provide scripting capability to perform various tasks directly under the operating system.  JavaScript is designed for web browsers. Python and PHP are interpreted languages requiring a proper interpreter to be installed on the operating system.  The correct answers are: shell script, PowerShell

Question 5 Correct Mark 2.00 out of 2.00  Flag question	Which interface is used to troubleshoot embedded system software?  Select one:  I2C  JTAG  SPI  UART	<b>~</b>
	Refer to curriculum topic: 3.1.2  The JTAG port (or interface) on an embedded system provides access to the system for troubleshooting software issues. JTAG is not a communication protocol but rather a protocol to be used for testing and debugging.  The correct answer is: JTAG	
Question 6 Correct Mark 2.00 out of 2.00 Flag question	What is the function of a data encryption algorithm?  Select one:  provides data confidentiality by making data unreadable to unauthorized individuals  authenticates a user by verifying the credentials of the connected user  securely deletes data to prevent data loss  authenticates devices by verifying the identity of the device	<b>~</b>
	Refer to curriculum topic: 3.3.2  A data encryption algorithm provides confidentiality by applying an algorithm that makes data unreadable to those who are not authorized view it. This algorithm can be applied to files or network traffic that contains confidential information.  The correct answer is: provides data confidentiality by making data unreadable to unauthorized individuals	to

What is the result of an attacker rooting an IoT device? Question 7 Correct Select one: Mark 2.00 out of An attacker that gains root access has limited access until the attacker installs backdoor software. 2.00 An attacker that gains root access has complete control over that device. ▼ Flag question An attacker that gains root access will be able to read the memory of that device. An attacker that gains root access is limited to local access of that device. Refer to curriculum topic: 3.2.2 An attacker that successfully roots an operating system can then read, modify, or delete any file on that system. The correct answer is: An attacker that gains root access has complete control over that device. Question 8 What is a key difference between an embedded device and a prototyping device? Correct Select one: Mark 2.00 out of An embedded device does not contain an operating system, whereas a prototyping device does. 2.00 ▼ Flag An embedded device uses removable media to hold the programming code, whereas a prototyping device uses a hard disk to hold the question programming code. An embedded device is programmed for one specific purpose, whereas a prototyping device is designed to perform different functions. An embedded device does not connect to the internet, whereas a prototyping device does. Refer to curriculum topic: 3.1.1 An embedded device is a product that contains a computing system designed for a special purpose. A prototyping device, such as Raspberry Pi, or Arduino, either needs a complete operating system to operate and be more closely related to a desktop computer or can be configured by writing program code to instruct it do various functions as desired. The correct answer is: An embedded device is programmed for one specific purpose, whereas a prototyping device is designed to perform

different functions.

Question <b>9</b> Correct Mark 2.00 out of 2.00  Flag question	Which two CPU types are based on the Reduced Instruction Set Computing architecture? (Choose two.)  Select one or more:  MIPS  AMD  iOS  Intel  ARM  Android
	Refer to curriculum topic: 3.1.1  CPUs from ARM and MIPS are based on the Reduced Instruction Set Computing architecture. CPUs from Intel and AMD are based on the Complex Instruction Set Computing architecture. Android and iOS are operating systems for mobile devices.  The correct answers are: ARM, MIPS
Question 10 Correct Mark 2.00 out of 2.00 Flag question	An administrator wants to implement an access control model that makes access decisions based on the role and responsibilities of an individual within an organization. Which access control model best addresses this requirement?  Select one:  mandatory  role-based  attribute-based  discretionary
	Refer to curriculum topic: 3.3.1 Role-based access control, also known as nondiscretionary, uses access decisions based on the role of individuals and their responsibilities within an organization. The correct answer is: role-based

Question 11	Which two pieces of information are needed to search for an IoT device in the FCC ID database? (Choose two.)
Correct  Mark 2.00 out of 2.00  Flag question	Select one or more:  grantee code  IP address  product code  product description  product serial number
	Refer to curriculum topic: 3.2.1 A known FCC ID is needed in order to search the FCC ID database. The FCC ID is made of two components, a grantee code followed by a product code.  The correct answers are: product code, grantee code
Question 12 Correct Mark 2.00 out of 2.00  Flag question	Which type of technology is classified as embedded software that includes a minimal operating system for controlling an IoT device?  Select one: SD card microcontroller firmware microprocessor
	Refer to curriculum topic: 3.2.2  Firmware is embedded software that contains a minimal operating system and related programs used for controlling an IoT device.  The correct answer is: firmware

Question 13 Which type of memory media would provide space to store collected data in an IoT device? Correct Select one: Mark 2.00 out of **EPROM** 2.00 SD card ▼ Flag question DRAM SRAM Refer to curriculum topic: 3.1.1 An SD card inserted in an IoT device can be used to store data necessary for IoT operation (for example, the entire operating system and configuration files) or to store collected data. EPROM is read-only media, the contents of which can only be altered through a specific system program. SRAM and DRAM are volatile memory. The correct answer is: SD card Question 14 What are constrained devices as they relate to the IoT? Correct Select one: Mark 2.00 out of They are located in a highly secured environment. 2.00 They have very limited power, memory, and processing cycles. ▼ Flag question To reduce possible attacks to a minimum, they have just a few communication interfaces. They are designed for use in a very rough environment. Refer to curriculum topic: 3.1.1 A constrained device usually has very limited power, memory, and processing cycles. The IoT is largely made up of constrained devices, such as smart sensors and embedded devices. The correct answer is: They have very limited power, memory, and processing cycles.

as smart sensors and embedded devices.  The correct answer is: They have very limited power, memory, and processing cycles.  Which type of access control model uses access control lists to allow users to control access to their own data?  Select one:  attribute-based  prinag question  Refer to curriculum topic: 3.3.1 Discretionary access control uses access control lists or other methods to allow users to control access to data that they own.  The correct answer is: discretionary  Finish review  Read Chapter 4: IoT Communication Layer Attack Surface ▶		as amort capacity and ambadded devices
Ouestion 15 Correct Mark 2.00 out of 2.00  P Flag question  Refer to curriculum topic: 3.3.1 Discretionary access control issts or other methods to allow users to control access to their own data?  Refer to curriculum topic: 3.3.1 Discretionary access control uses access control lists or other methods to allow users to control access to data that they own.  The correct answer is: discretionary  Finish review  Read Chapter 3 Terms and Concents Practice  Type to  Read Chapter 4: IoT Communication		
Select one:  attribute-based  prole-based  mandatory  role-based  discretionary  Refer to curriculum topic: 3.3.1 Discretionary access control uses access control lists or other methods to allow users to control access to data that they own.  The correct answer is: discretionary  Finish review  Read Chapter 4: IoT Communication		The correct answer is: They have very limited power, memory, and processing cycles.
Select one:  attribute-based  prole-based  mandatory  role-based  discretionary  Refer to curriculum topic: 3.3.1 Discretionary access control uses access control lists or other methods to allow users to control access to data that they own.  The correct answer is: discretionary  Finish review  Read Chapter 4: IoT Communication		
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role-based  discretionary  Refer to curriculum topic: 3.3.1 Discretionary access control uses access control lists or other methods to allow users to control access to data that they own. The correct answer is: discretionary  Finish review  Read Chapter 4: IoT Communication		
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Discretionary access control uses access control lists or other methods to allow users to control access to data that they own.  The correct answer is: discretionary  Finish review  Read Chapter 3 Terms and Concents Practice		<ul><li>discretionary</li></ul>
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Chapter 3 Terms and Concepts Practice Tump to		The correct answer is: discretionary
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